

Massachusetts Health Status Indicators by Race and Hispanic Ethnicity

**Division of Research and Epidemiology
Bureau of Health Statistics, Research and Evaluation
Massachusetts Department of Public Health
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Acknowledgments

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Introduction

Massachusetts Health Status Indicators by Race and Hispanic Ethnicity is a compilation of existing state data sources providing information on health status of Massachusetts residents by race and Hispanic ethnicity. The purpose of this publication is to provide this information in one place for easier access by public health program planners, policy-makers, advocates, and the public.

The report is divided into chapters, with each chapter focusing on a specific data source. Each chapter consists of a series of graphs summarizing the differences in health status indicators between the major racial groups in Massachusetts (White non-Hispanic; Black non-Hispanic; Hispanic; and Asian). At the beginning of each chapter is information about the data it contains – the agency and program responsible for collecting and reporting the data, how the data is collected, and contact information for that agency. The final chapter contains risk ratios for all of the health status indicators presented. The risk ratios are summary statistics to compare the various health risk behaviors and health outcomes of minority racial groups to white non-Hispanics.

Contents

Chapters and Topics	Page
Demographics	1
Population	2
Median Age	2
Per Capita Income	3
Poverty	3
Risk Factors – Adults	5
Regular Checkups	6
Health Status	6
Health Insurance	7
Smoking	7
Binge Drinking	8
Chronic Drinking	8
Obesity	9
Nutrition	9
Physical Activity	10
Diabetes	11
High Cholesterol	11
High Blood Pressure	12
Mammogram	12
Blood Pressure Screening	13
Cholesterol Screening	13
Cervical Cancer Screening (Pap Smear)	14
Colorectal Screening (Proctoscopic Exam)	14

Smoking, Alcohol, and Drug Use: Children and Adolescents	15
Triennial School Survey: 1999 (Grades 7-8 and 9-12)	
Smoking	16
Drinking	16
Marijuana	17
Inhalants	17
Cocaine	18
Tranquilizers	18
Narcotics	19
 Risk Behaviors: High School Students	 21
Youth Risk Behavior Survey (Grades 9-12)	
Tobacco Use (cigarettes, smokeless tobacco, cigars)	22-24
Acquisition of Drugs	24
Binge Drinking	25
Violence (weapon carrying/use, fights, gangs, personal safety)	25-27
Sexual Activity	28-31
Sex Education and AIDS Prevention	32-33
Depression	33
Suicide	34-35
Motor Vehicle Safety (seat belts, drinking and driving)	35-36
Overweight and Physical Activity	37
Nutrition	38
Physical Activity/Sports	38-39

Births	41
Distribution of Births	42
Infant Mortality Rate	42
Teen Births	43
Premature Births	43
Low Birthweight	44
Publicly-financed Prenatal Care	44
Adequate Prenatal Care	45
Smoking during Pregnancy	45
Breastfeeding	46
Cesarean Section	46
Deaths	47
Age-Adjusted Mortality Rates	48
Ranking of Leading Causes of Death	49
Age-Adjusted Death Rates	
Heart Disease	50
Cancer	50
Lung Cancer	51
Breast Cancer (Female)	51
Prostrate Cancer	52
Colon Cancer	52
Stroke	53
Diabetes	53
Influenza and Pneumonia	54
Chronic Lower Respiratory Disease	54
AIDS/HIV-Related Diseases	55
Change in AIDS/HIV-Related Death Rates for Men Ages 25-44	55

Deaths (cont.)

Age-Adjusted Death Rates (cont.)

Motor Vehicle-related Injuries	56
Suicide	56
Homicide	57
Other Injuries	57

Age-Specific Death Rates

Residents Ages 1-14	58
Residents Ages 15-24	58
Residents Ages 25-44	59
Residents Ages 45-64	59
Residents Ages 65 and Over	60

Hospital Discharge Data**61**

Hypertension	62
Cerebrovascular Disease (Stroke)	62
Major Cardiovascular Disease	63
Asthma	63

AIDS and STD Incidence**65**

AIDS	66
Syphilis	67
Gonorrhea	68
Chlamydia	69

Risk Ratios**71****Appendix****77****Technical Notes****83**

Demographics

A note about demographics:

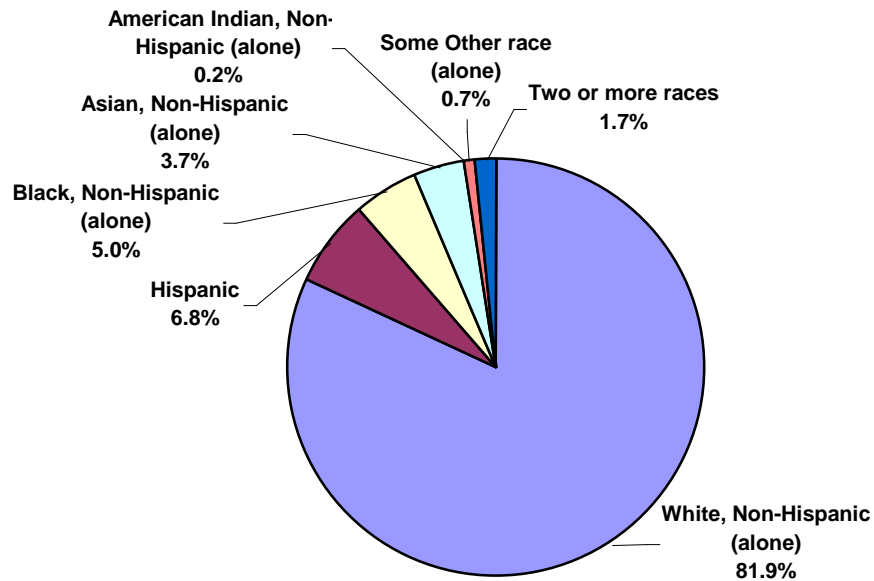
Population data are provided from several sources: 1) the U.S. Census Bureau, Census 2000 SF1 (100% count) and Redistricting file (P.L. 94-171); 2) the U.S. Census Bureau, 1990 Census, STF3, and; 3) the Massachusetts Institute for Social and Economic Research (MISER).

See the Appendix for tables of Massachusetts population counts by race and Hispanic ethnicity from Census 2000, as well as population changes between 1990-2000 within race and Hispanic ethnicity categories. Also in the appendix are MISER population estimates for 1998, which are used as denominators to calculate population-based rates for 1999 data.

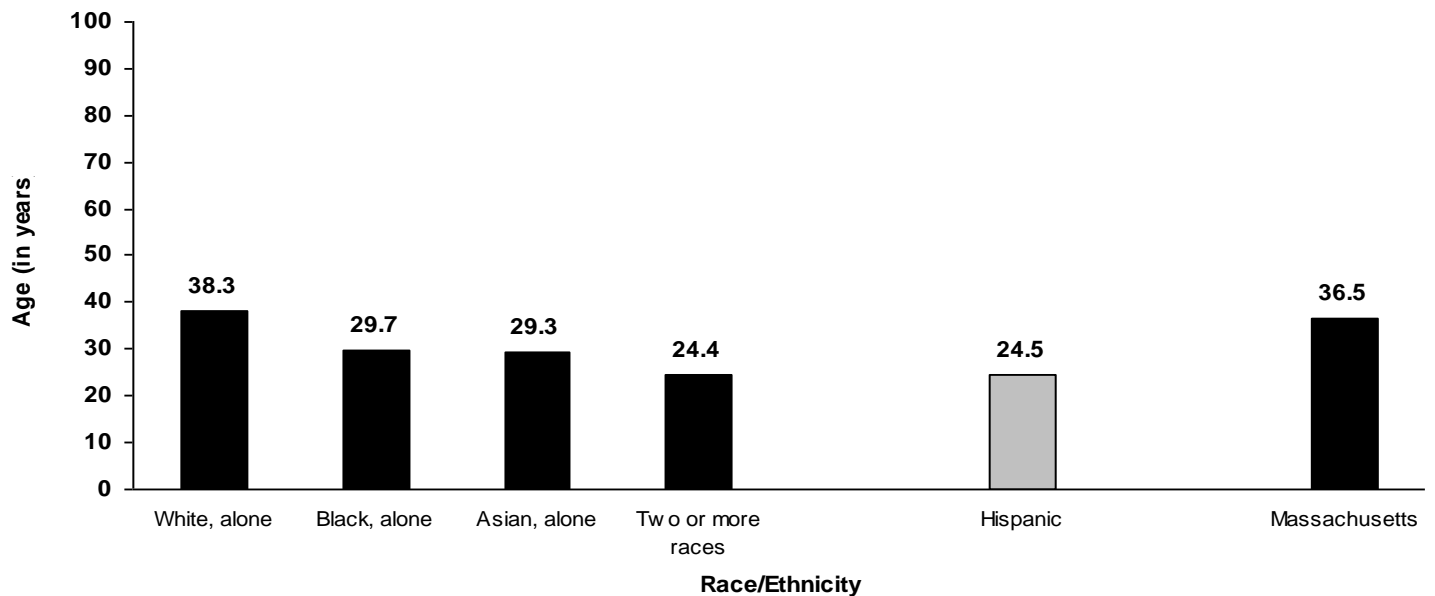
For further information, contact the Bureau of Health Statistics, Research and Evaluation (617-624-5657) or the regional Office of the Census Bureau.

Please note: Census 2000 data on income and poverty will not be available until approximately Summer, 2002. The latest available data has been used in all cases.

Population by Race and Hispanic Ethnicity¹, Massachusetts: 2000²



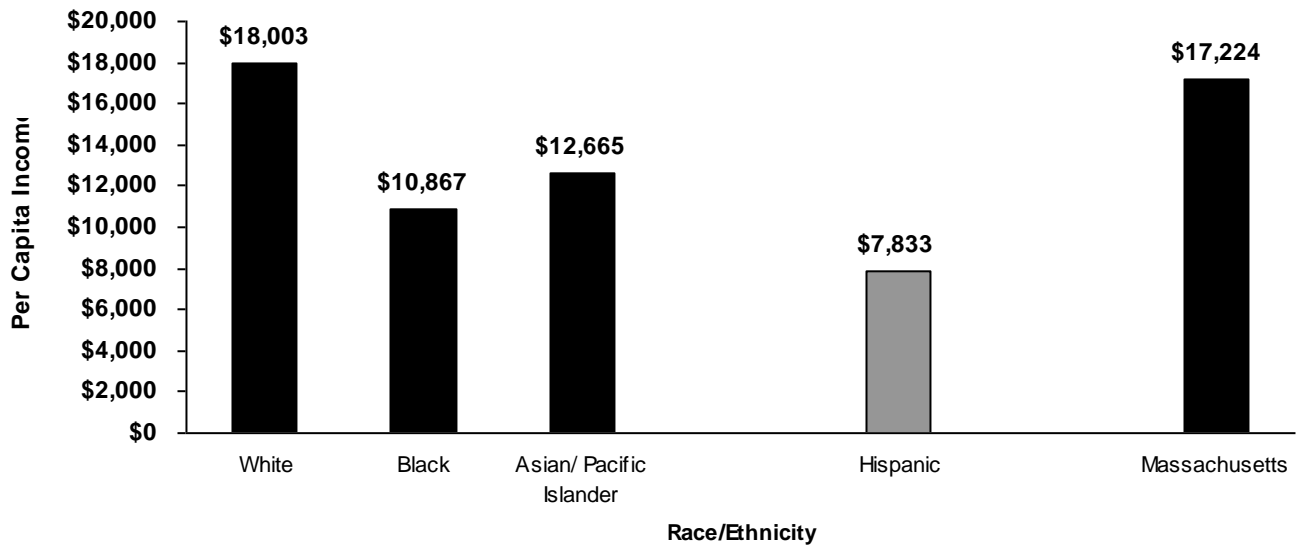
Median Age by Race and Hispanic Ethnicity³, Massachusetts: 2000²



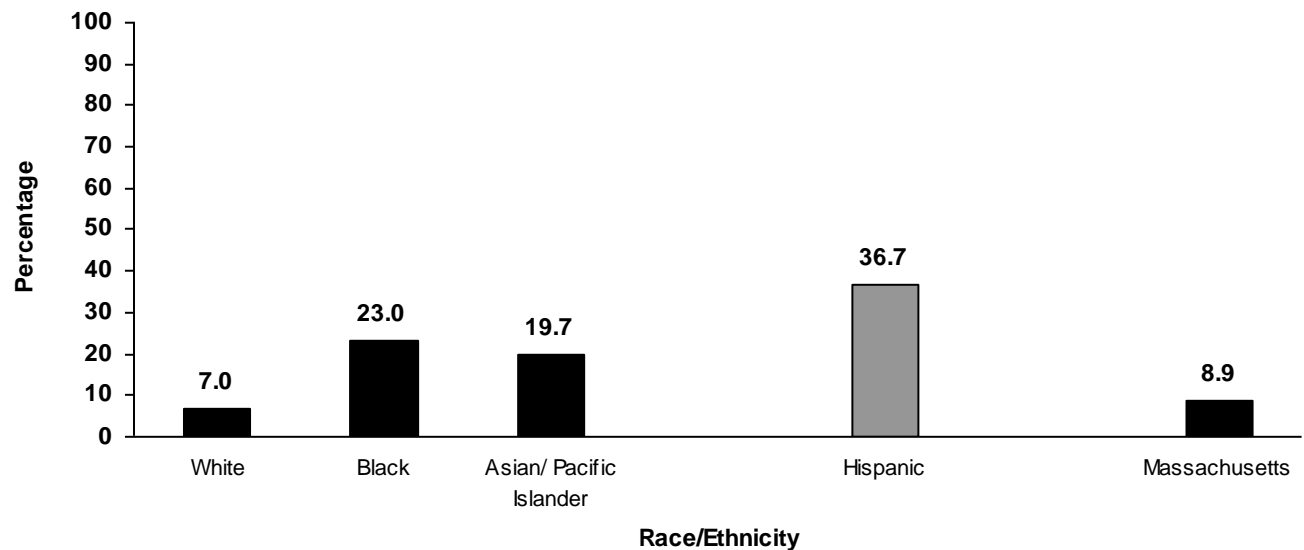
1. Race and Hispanic ethnicity categories are mutually exclusive; persons of Hispanic ethnicity are not included in a race category.

2. Data source: U.S. Census Bureau, Census 2000 PL 94-171 Summary File. 3. Persons of Hispanic ancestry are also represented in the race categories they select.

**Per Capita Income¹
by Race/Hispanic Ethnicity², Massachusetts: 1989³**



**Percentage of Persons Living Under Federal Poverty Level
by Race/Hispanic Ethnicity², Massachusetts: 1989⁴**



1. Per capita income is the average income computed for every man, woman, and child in a particular geographic area. It is derived by dividing the total income for an area by the total population in that area. 2. Persons of Hispanic ancestry are also represented in the race categories they select. 3. Data Source: U.S. Census, 1990, STF3. 4. Population living under Federal poverty level appears in the 1990 U.S. Census calculated for the year 1989. The computation is based on family size, age of family members, and income. For every family size (from one person to nine or more persons), an income threshold is established to determine "below 100% of the poverty line." The average poverty threshold for a family of four persons was \$12,674 in 1989.

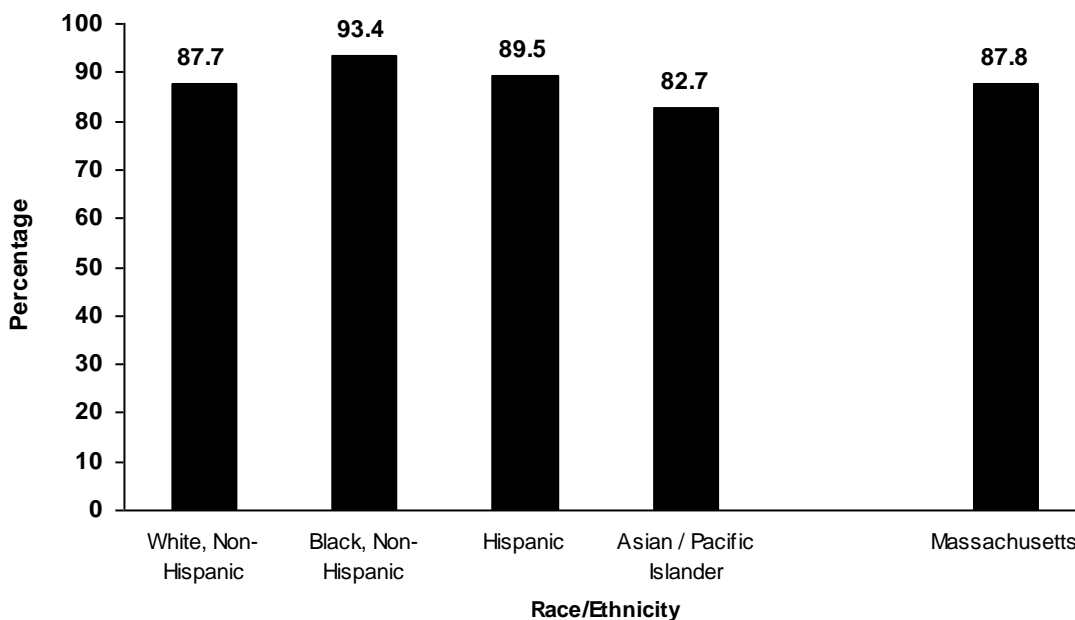
Risk Factors -- Adults

A note about the Behavioral Risk Factor Surveillance Survey (BRFSS):

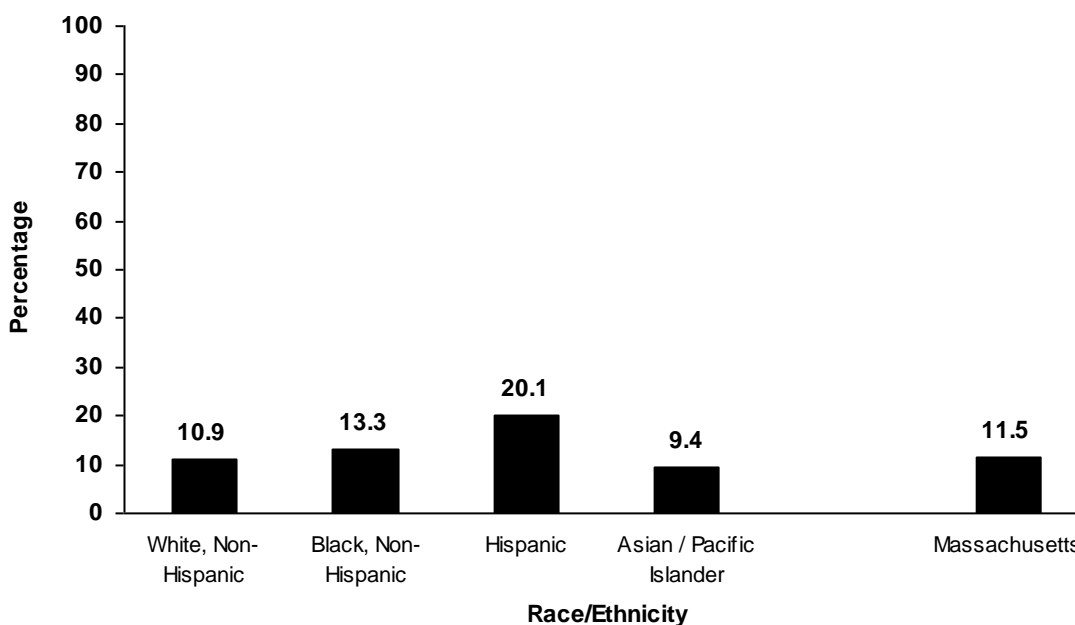
The BRFSS is an annual, continuous, random-digit-dial statewide telephone survey of Massachusetts adults 18 years of age and older. Through cooperative agreement with the CDC and state Departments of Health, similar surveys are conducted in all states. The BRFSS collects information on a wide variety of health issues, ranging from health-related behavior and access to medical care, to opinions on health-related policy issues. Survey questions change over time, which is why data is not available on certain survey topics for some years. For instance, the question on binge drinking was asked in 1995, 1997, and 1999; therefore, the graph shows aggregate data for these 3 years. Each graph title indicates which years of data were aggregated to calculate the percentages shown for that topic. In addition to English, the survey is conducted in Spanish and Portuguese. The percentages presented are weighted to the MA total population. For further information, contact the Bureau of Health Statistics, Research and Evaluation, Chronic Disease Surveillance Program (617-624-5636).

NOTE: Race and Hispanic ethnicity categories are mutually exclusive; persons of Hispanic ethnicity are not included in a race category.

Percentage of Adults Receiving a Regular Checkup in the Past 2 Years¹ by Race/Hispanic Ethnicity, Massachusetts: 1995-1999²

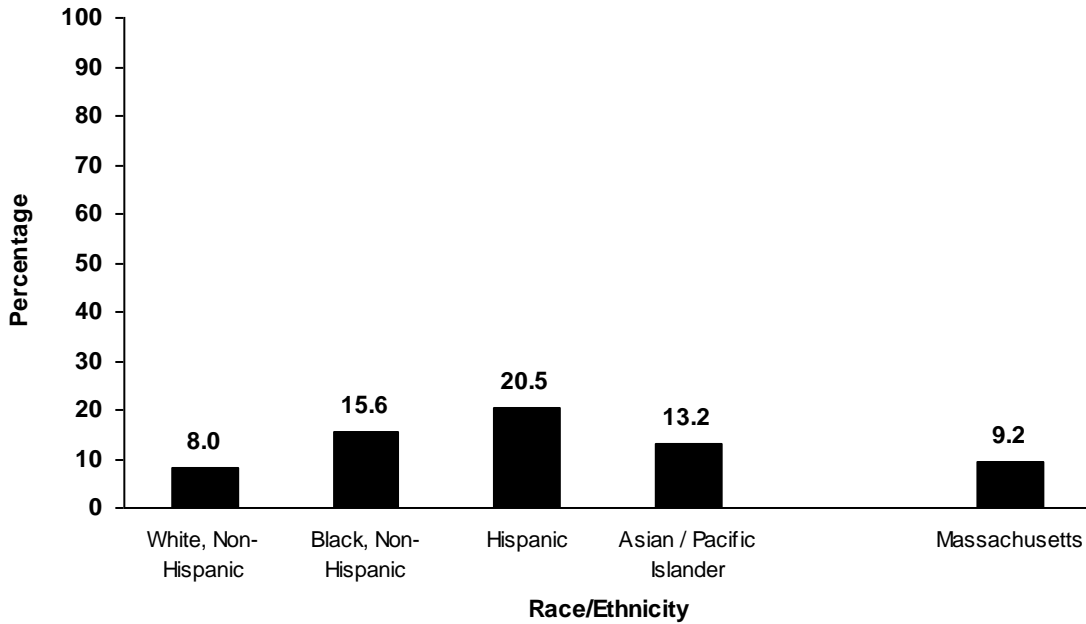


Percentage of Adults Reporting Fair/Poor Health Status³ by Race/Hispanic Ethnicity, Massachusetts: 1995-1999²

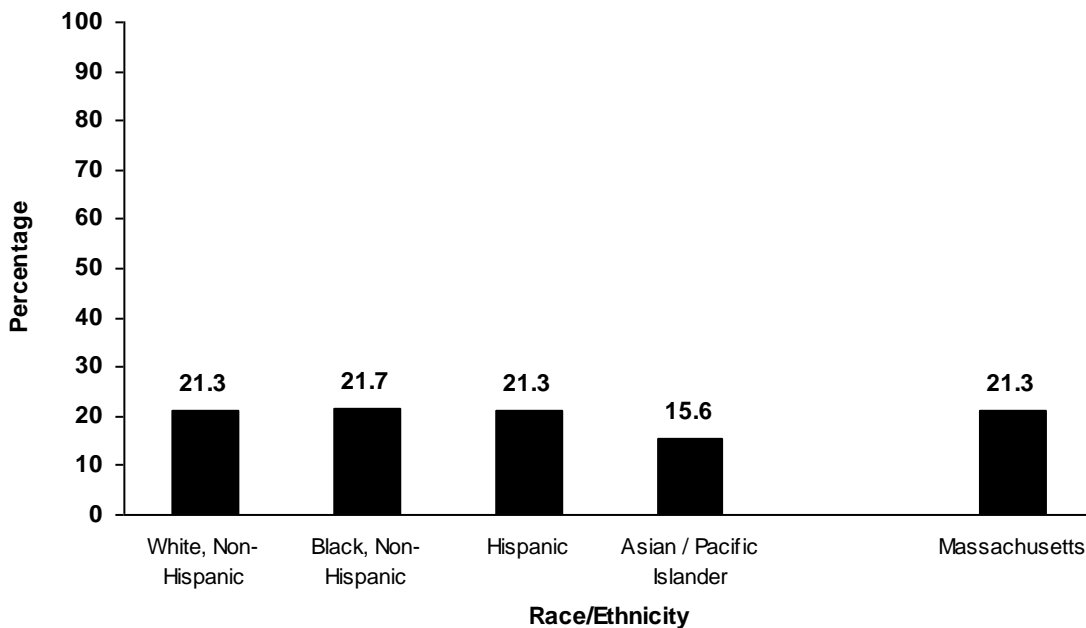


1. Reported having visited a doctor for a routine check-up within the past 2 years. 2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1995-1999" equals 5 years of aggregated data. 3. Reported having "poor/fair" health status.

Percentage of Adults Reporting No Health Insurance¹ by Race/Hispanic Ethnicity, Massachusetts: 1995-1999²

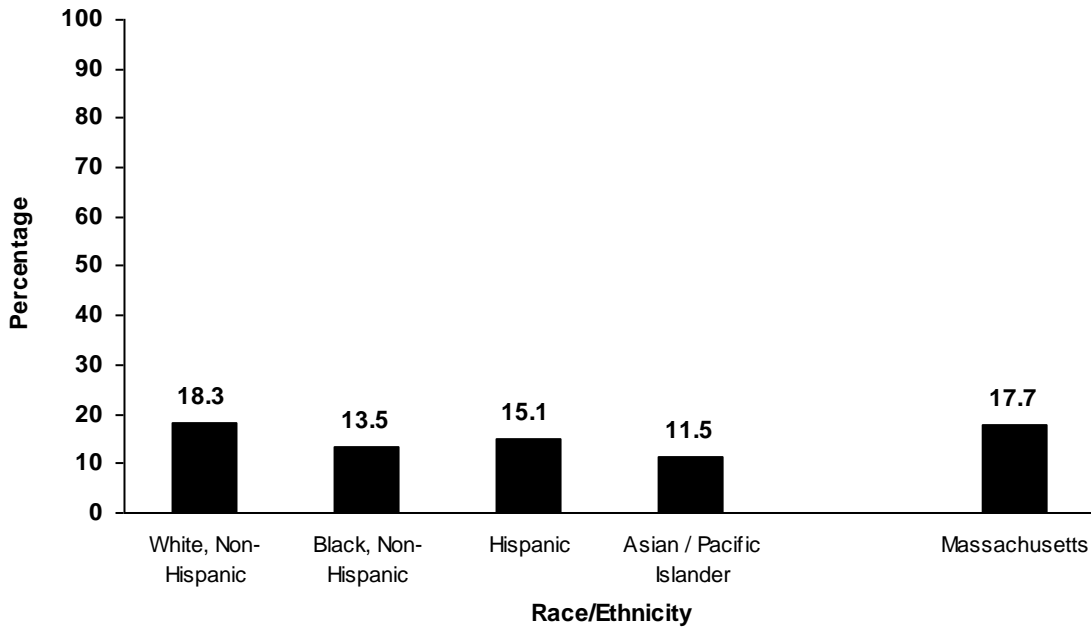


Percentage of Adults Currently Smoking³ by Race/Hispanic Ethnicity, Massachusetts: 1995-1999²

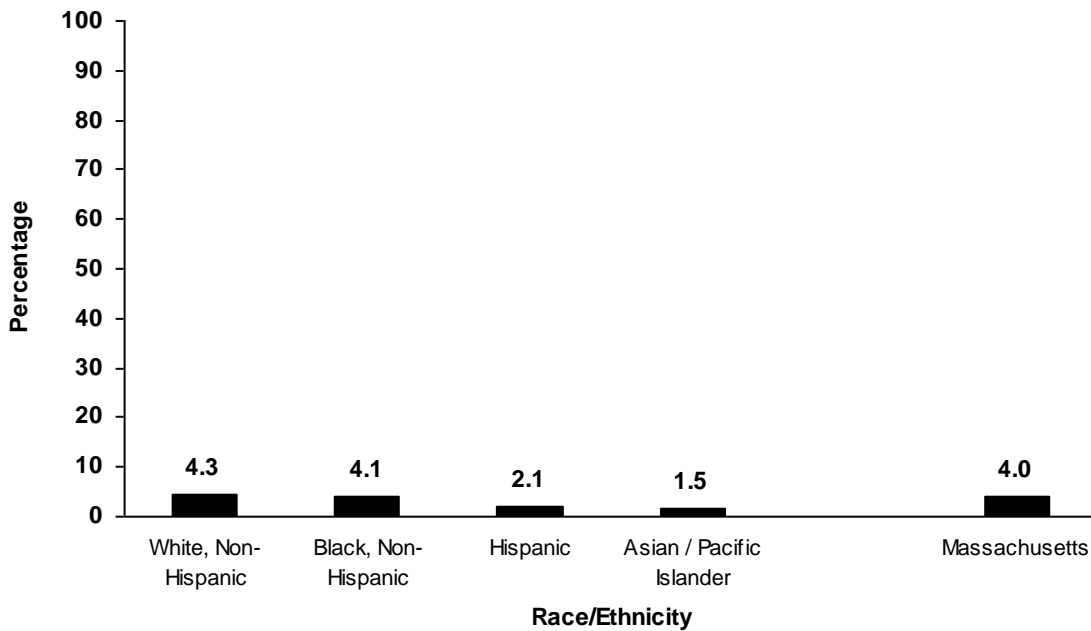


1. Responded "no" to the question "Do you have any kind of health care plan?" 2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1995-1999" equals 5 years of aggregated data. 3. Reported having smoked 100 cigarettes in lifetime and currently smokes.

**Percentage of Adults Reporting Binge Drinking¹ by Race/Hispanic Ethnicity,
Massachusetts: 1995, 1997, 1999²**

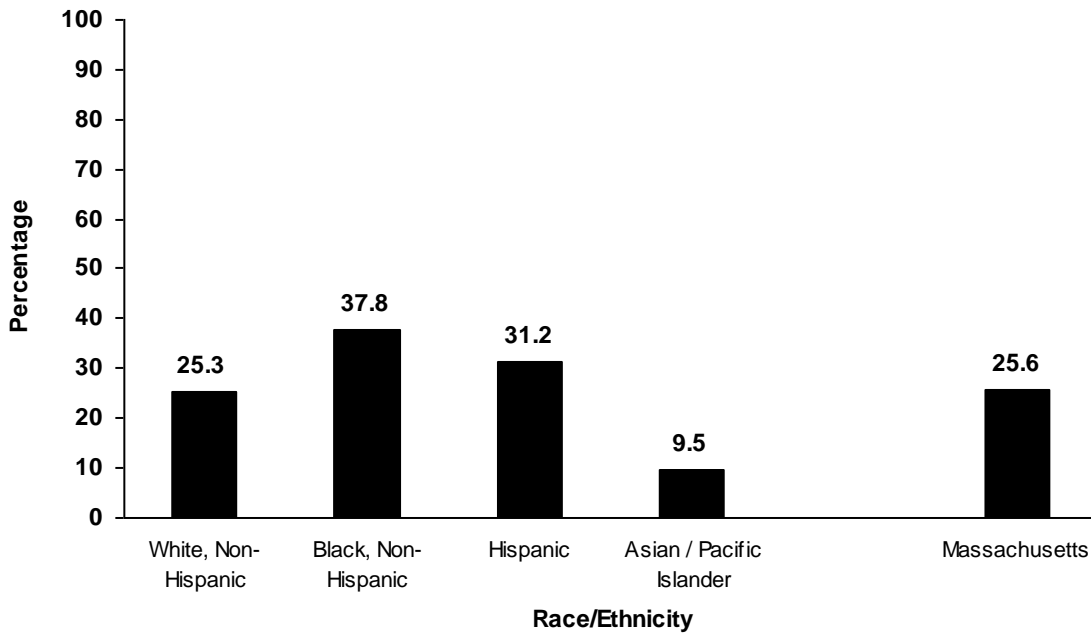


**Percentage of Adults Reporting Chronic Drinking³ by Race/Hispanic Ethnicity,
Massachusetts: 1995, 1997, 1999²**

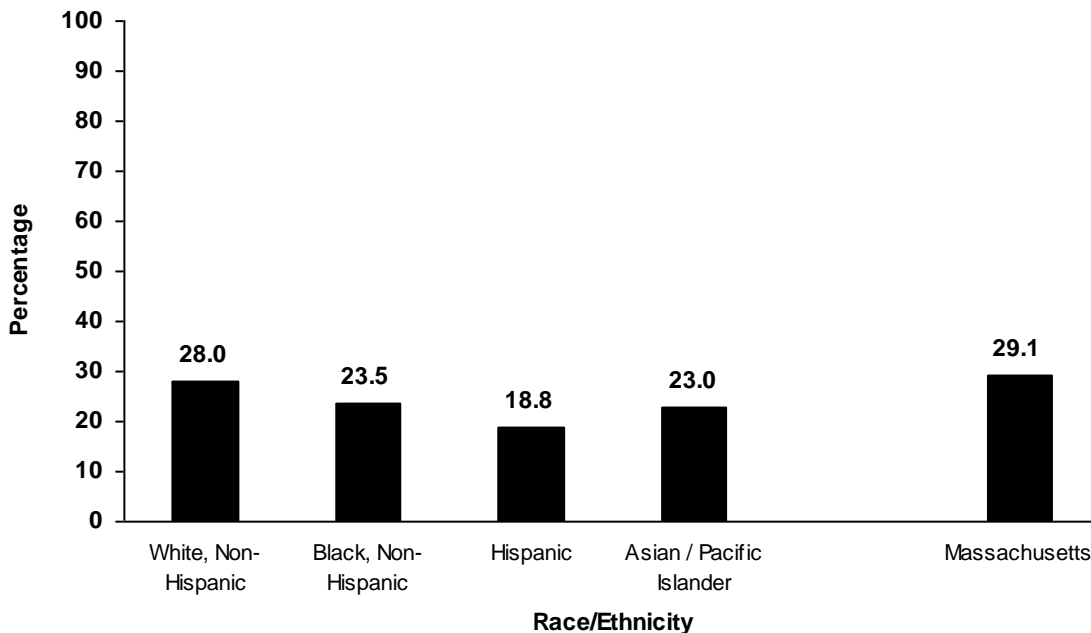


1. Reported having 5 or more drinks at one occasion in the past month. 2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1995, 1997, 1999" equals 3 years of aggregated data. 3. Reported drinking 60 or more alcoholic drinks in the past month.

**Percentage of Adults Reporting Overweight¹ by
Race/Hispanic Ethnicity, Massachusetts: 1995-1999²**



**Percentage of Adults Reporting Consuming 5 or More Servings of
Fruits and Vegetables Daily³ by Race/Hispanic Ethnicity,
Massachusetts: 1994, 1996 and 1998⁴**

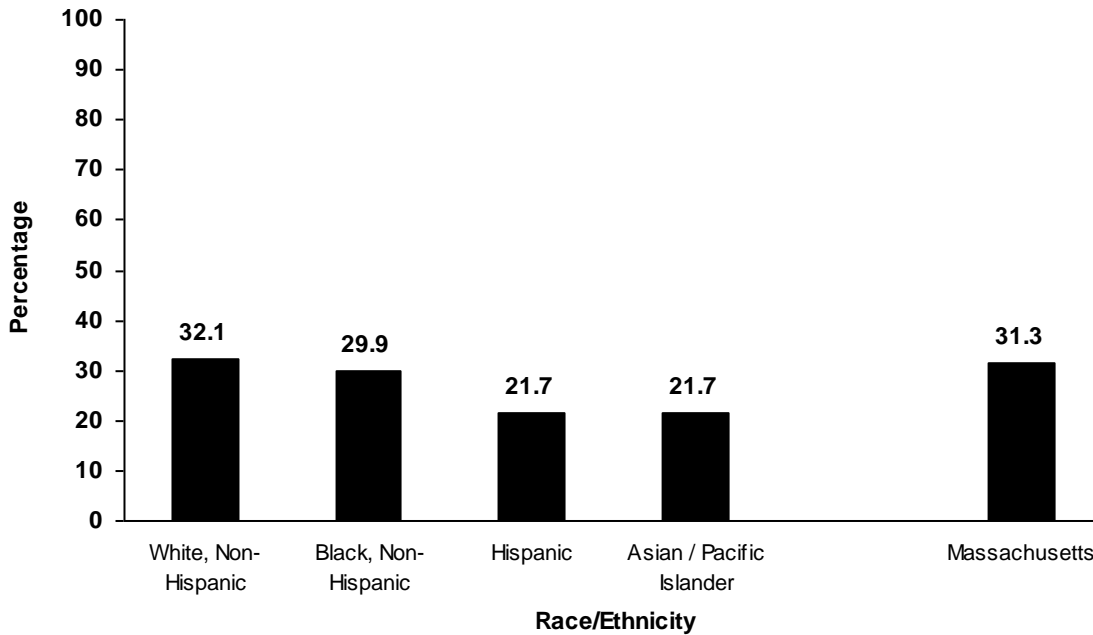


1. Body Mass Index (computed from self-reported height and weight) of at least 27.8 kg/m² (men) or 27.3 kg/m² (women).

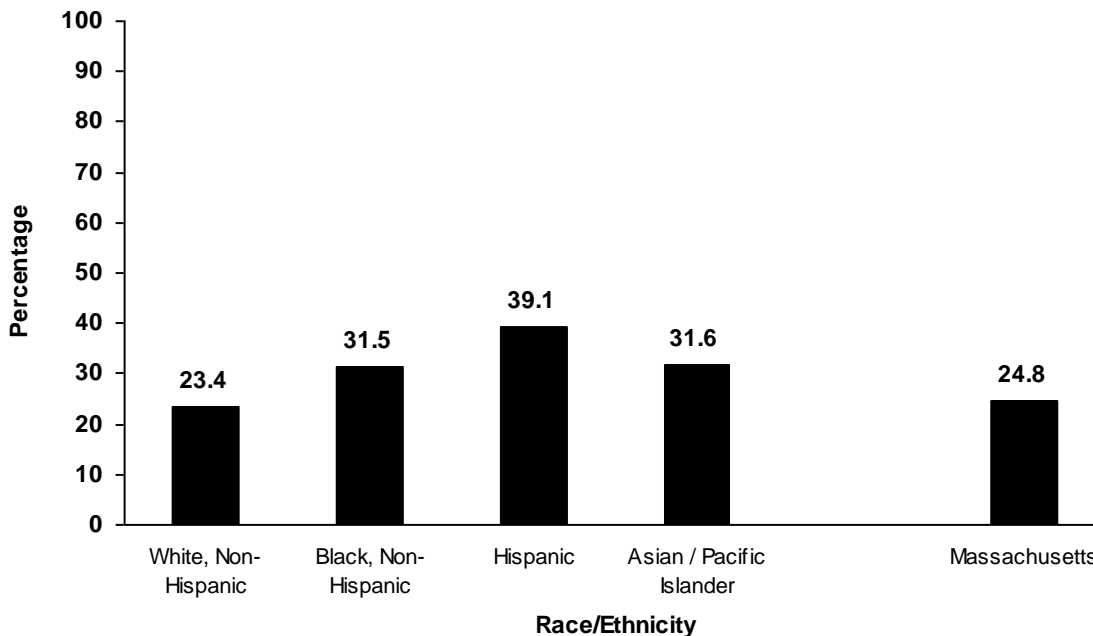
2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1995-1999" equals 5 years of aggregated data.

3. Reported having 5 or more servings of fruits and vegetables per day. 4. "1994, 1996 and 1998" equals 3 years of aggregated data (BRFSS).

Percentage of Adults Participating in Regular Physical Activity¹ by Race/Hispanic Ethnicity, Massachusetts: 1994, 1996 and 1998²



Percentage of Adults Reporting No Physical Activity in the Past Month³ by Race/Hispanic Ethnicity, Massachusetts: 1994, 1996 and 1998²

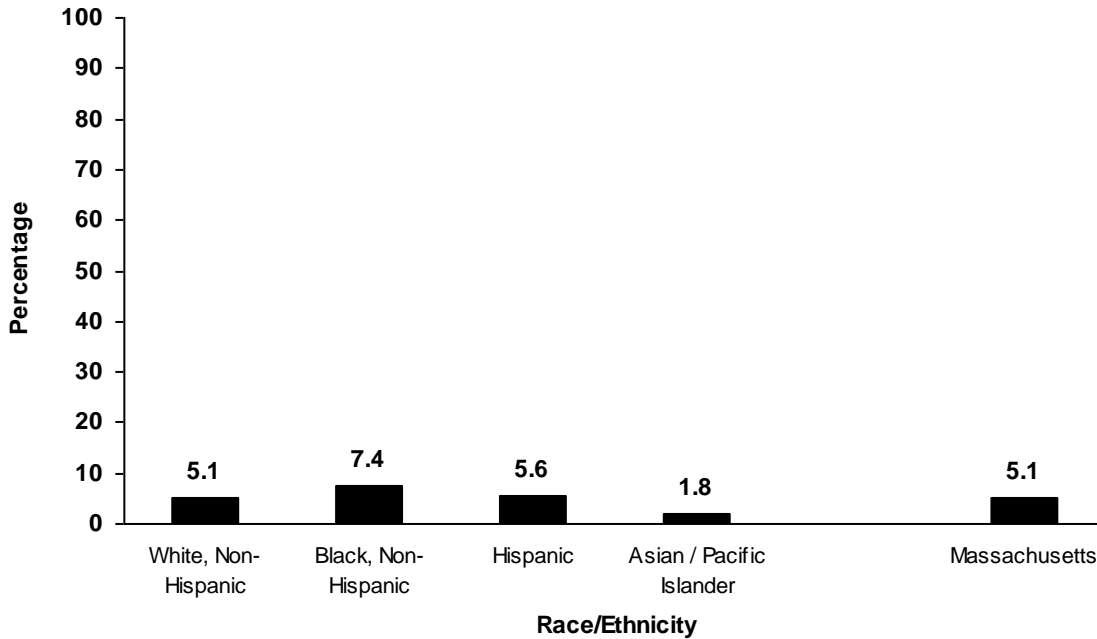


1. Reported engaging in physical activity for 30 minutes five times or more per week, regardless of intensity, within past month.

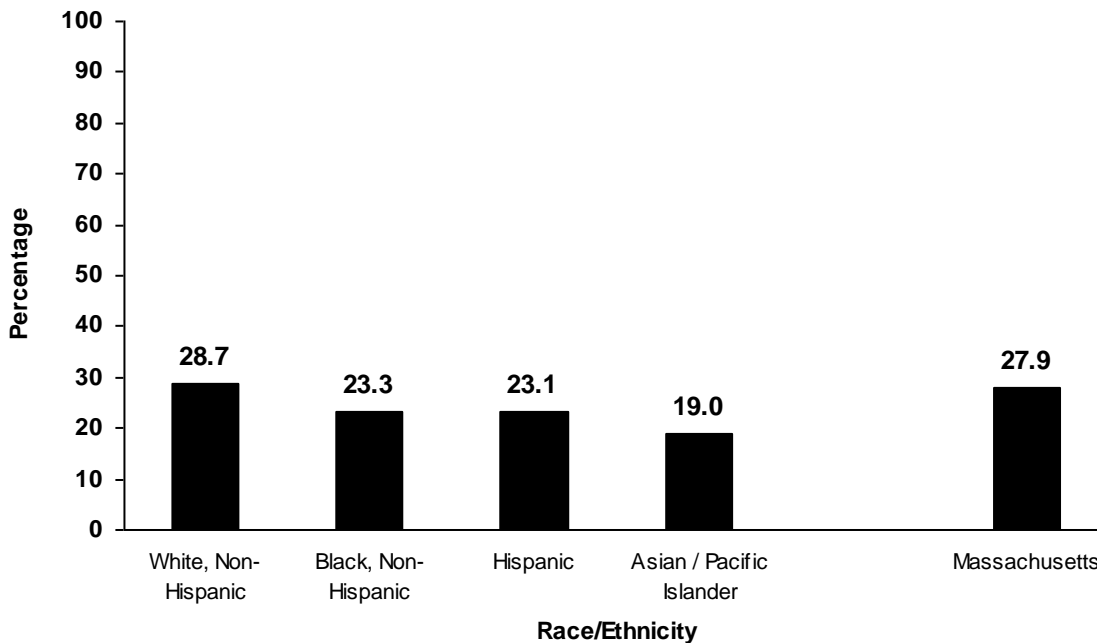
2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1994, 1996 and 1998" equals 3 years of aggregated data (BRFSS).

3. Reported no physical activity in the past month.

**Percentage of Adults Reporting Diabetes¹ by Race/Hispanic Ethnicity,
Massachusetts: 1995-1999²**

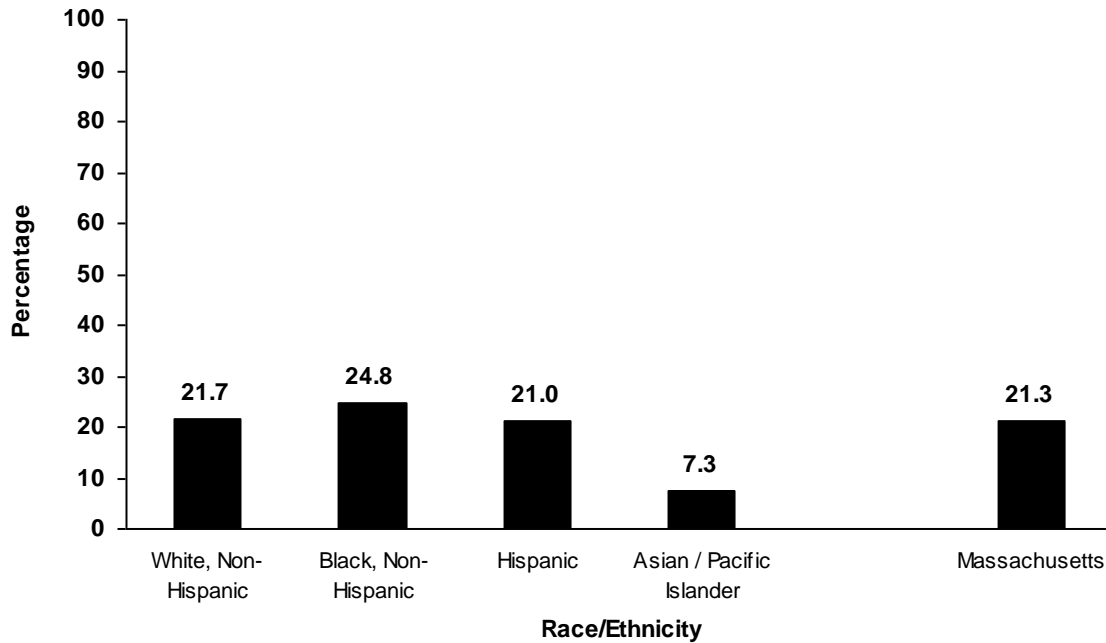


**Percentage of Adults Reporting High Cholesterol³ by Race/Hispanic Ethnicity,
Massachusetts: 1995, 1997 and 1999⁴**

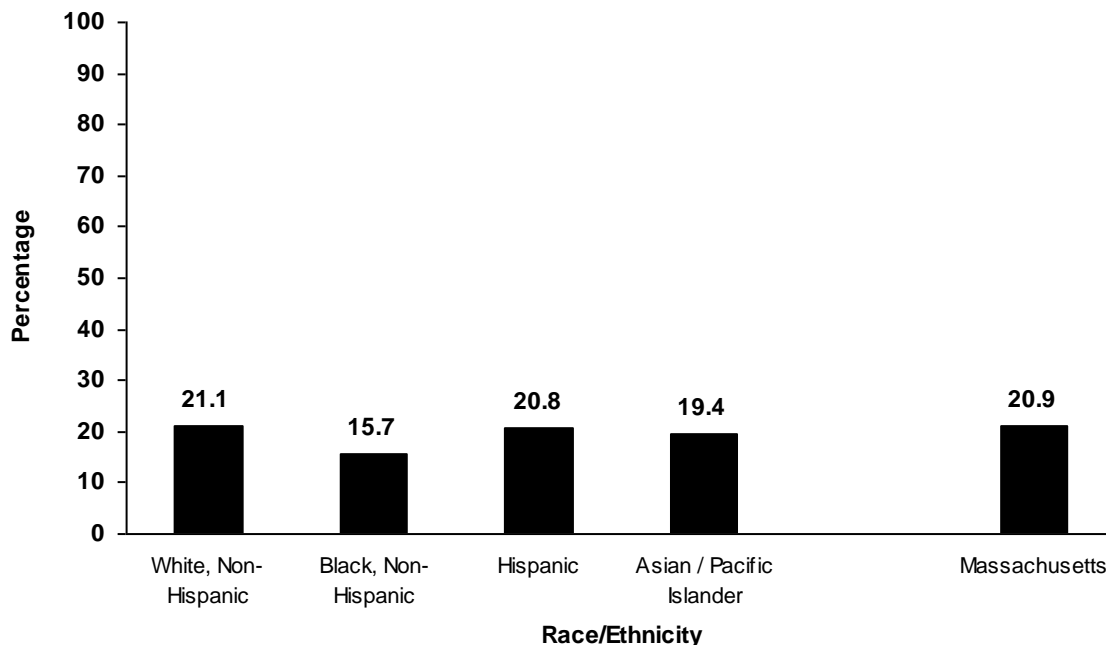


1. Responded "Yes" to the question, "Have you ever been told by a doctor you have diabetes?" 2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1995-1999" equals 5 years of aggregated data. 3. Reported ever having been told by a doctor or health professional that blood cholesterol was high (only asked of those who had their blood cholesterol checked). 4. "1995, 1997 and 1999" equals 3 years of aggregated data (BRFSS).

**Percentage of Adults Reporting High Blood Pressure¹ by
Race/Hispanic Ethnicity, Massachusetts: 1995, 1997 and 1999²**

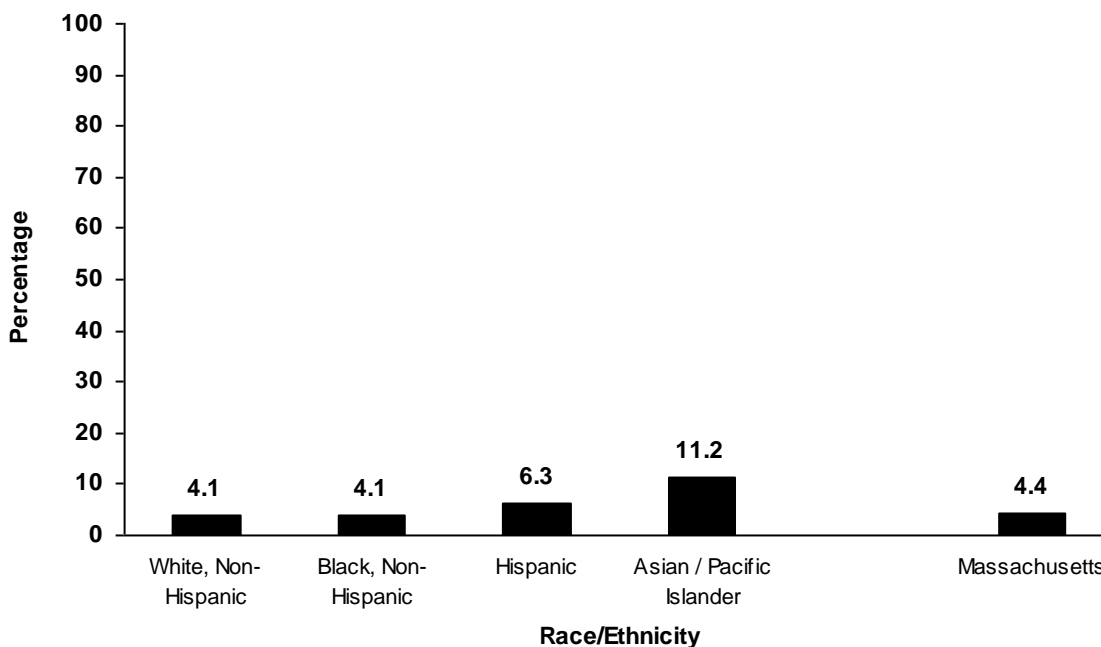


**Percentage of Women Ages 40 and Older Reporting No Recent Mammogram³, by
Race/Hispanic Ethnicity, Massachusetts: 1995-1999⁴**

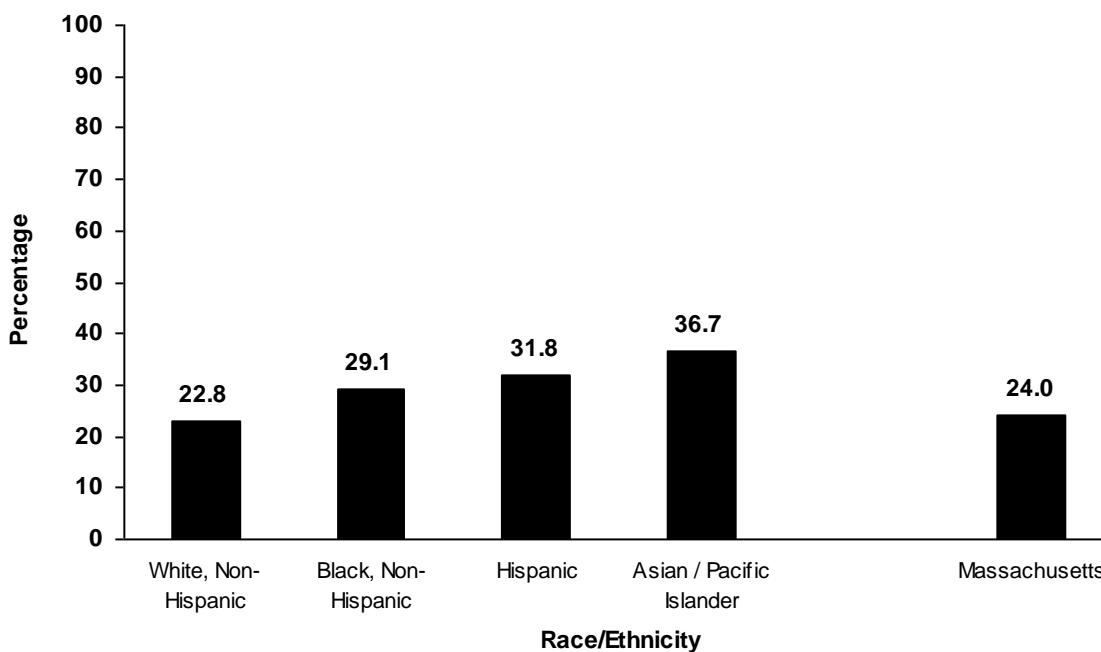


1. Reported ever having been told by a doctor or other health professional that blood pressure was high. 2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1995, 1997, and 1999" equals 3 years of aggregated data. 3. Women 40 and older reporting either never having had a mammogram or having last mammogram over two years ago. 4. "1995- 1999" equals 3 years of aggregated data.

Percentage of Adults Reporting No Blood Pressure Screening in Past 2 Years¹, by Race/Hispanic Ethnicity, Massachusetts: 1995, 1997 and 1999²

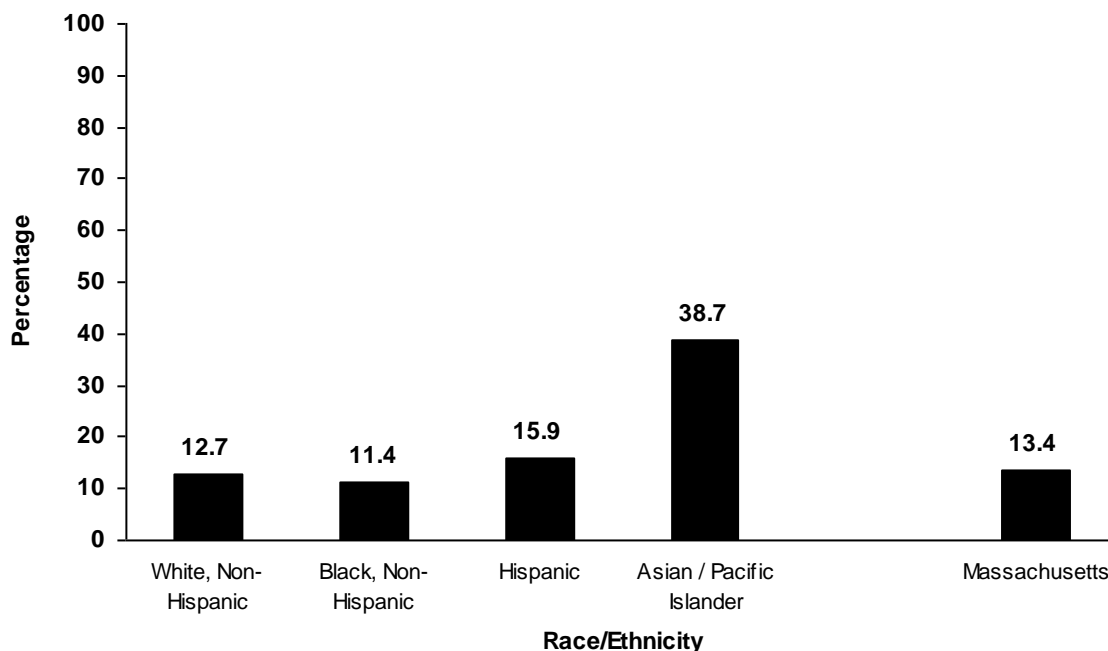


Percentage of Adults Reporting No Cholesterol Screening in Past 5 Years³, by Race/Hispanic Ethnicity, Massachusetts: 1995, 1997 and 1999²

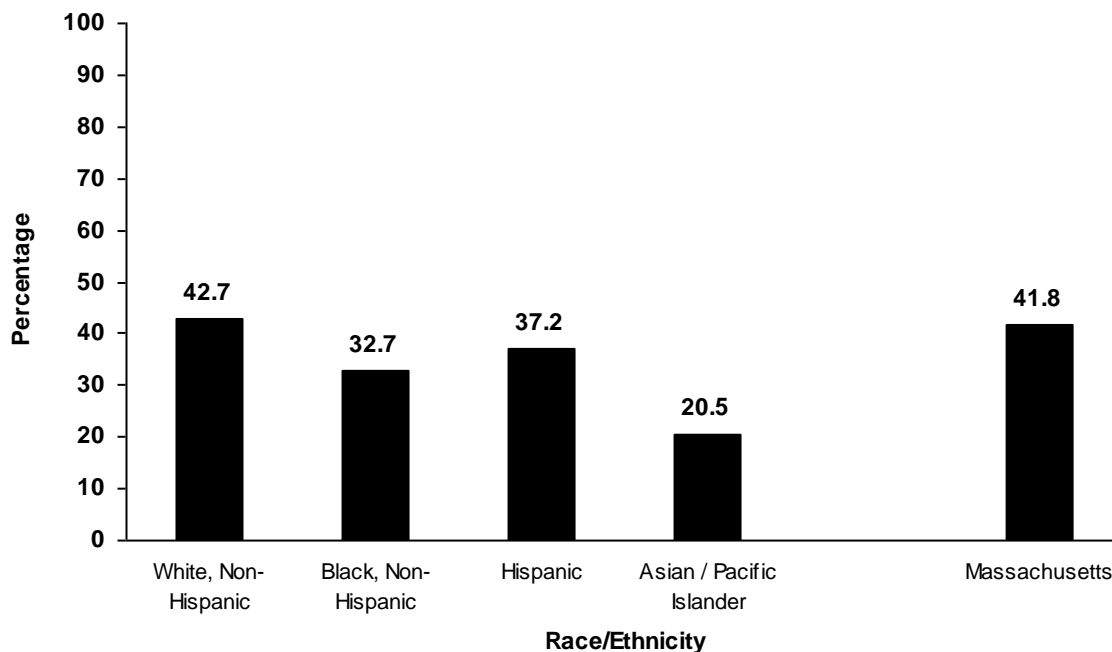


1. Reported not having had blood pressure checked in the past 2 years. 2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1995, 1997, and 1999" equals 3 years of aggregated data. 3. Reported not having had cholesterol checked in the past 5 years.

**Percentage of Women 18 and Older Reporting No Recent Pap Smear¹, by
Race/Hispanic Ethnicity, Massachusetts: 1995-1999²**



**Percentage of Adults Ages 50+ Reporting Ever Having a Proctoscopic Exam³, by
Race/Hispanic Ethnicity, Massachusetts: 1995, 1997 and 1999⁴**



1. Women 18 and over responding that they had either never had a pap smear or that their last pap smear was over 3 years ago. 2. Data Source: Behavioral Risk Factor Surveillance System (BRFSS); "1995-1999" equals 5 years of aggregated data. 3. People 50 years of age and older who responded having ever had a proctoscopic exam. 4. "1995, 1997, and 1999" equals 3 years of aggregated data (BRFSS).

Smoking, Alcohol and Drug Use – Children and Adolescents

Triennial School Survey: 1999
Grades 7-8 and 9-12

A note about the Triennial School Survey:

The Massachusetts Department of Public Health's Triennial School Survey has been conducted every 3 years since 1984. This survey is a random sample of classrooms by grade level and by town. The 1999 survey sampled 169 schools in 106 communities in the Commonwealth from Fall of 1999 to Spring of 2000. The survey results provide information on smoking, alcohol, and drug use behaviors in grades 7-8 and 9-12.

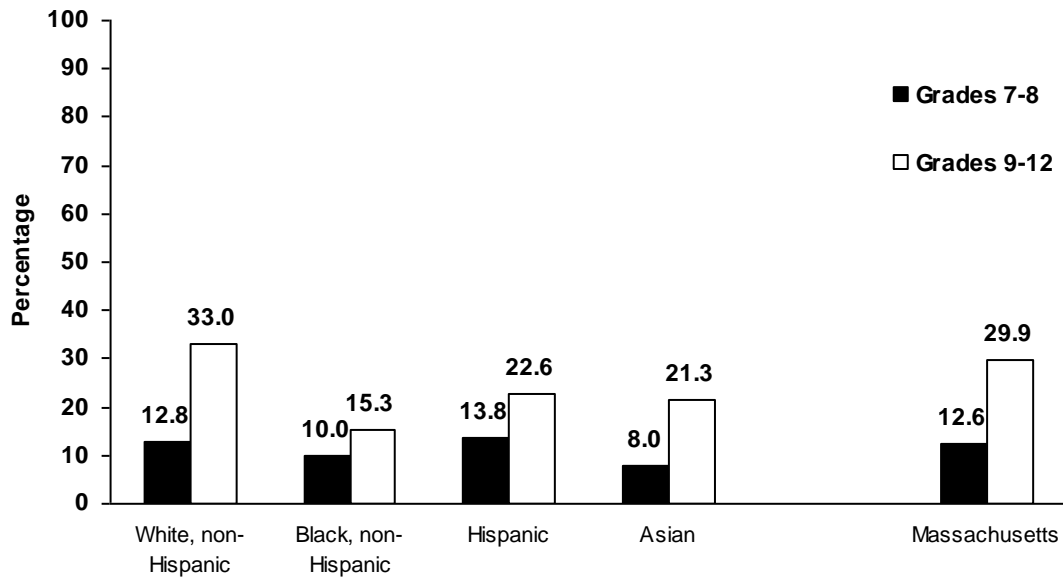
The total numbers of students surveyed in 1999 (by racial group) are as follows:
Grades 7-8: Black=307; White=1,470; Hispanic=368; Asian=158;
Grades 9-12: Black=504; White=2,251; Hispanic=443; Asian=197.

NOTE: The definition of “current use” is “at least once in the 30 days (month) prior to the survey.”

Race and Hispanic ethnicity categories are mutually exclusive; persons of Hispanic ethnicity are not included in a race category.

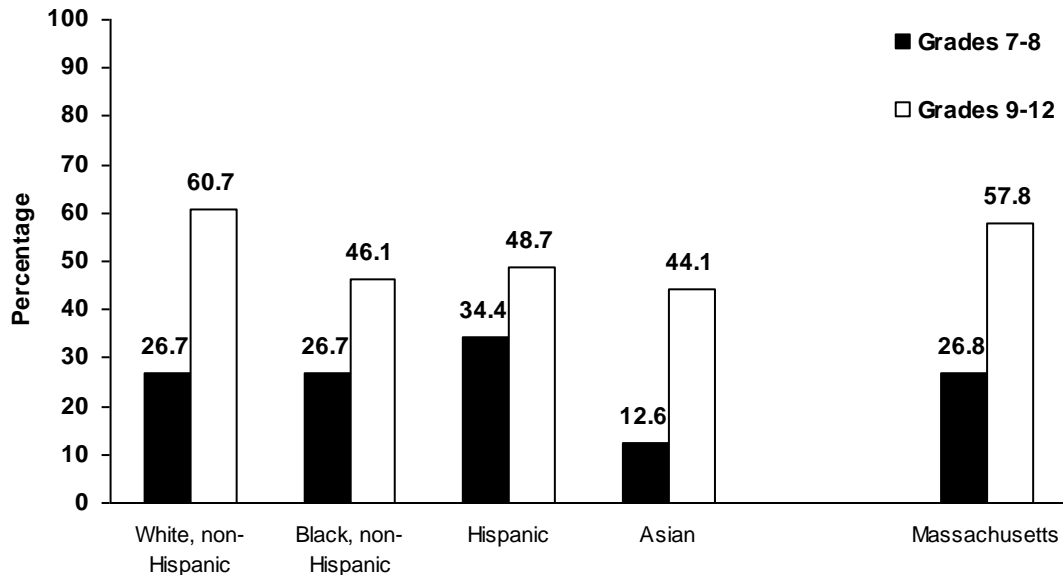
For further information, contact the Bureau of Substance Abuse Services (617-624-5167).

**Percentage Currently Smoking
by Race/Hispanic Ethnicity and Grade Level,
Massachusetts: 1999¹**



Race/Ethnicity by Grade Level

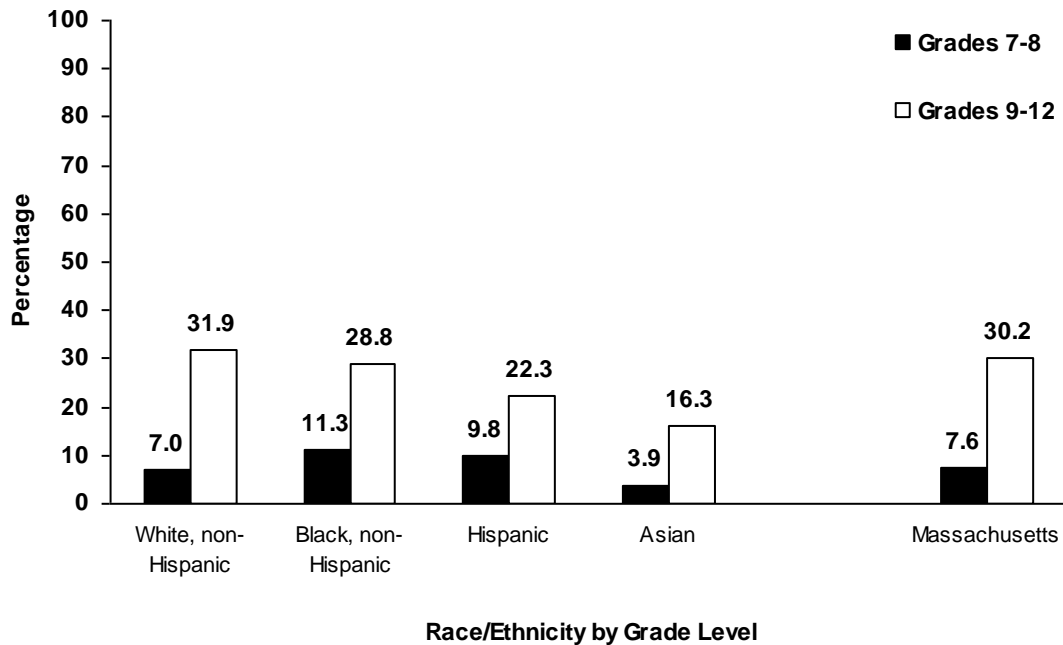
**Percentage Currently Drinking
by Race/Hispanic Ethnicity and Grade Level,
Massachusetts: 1999¹**



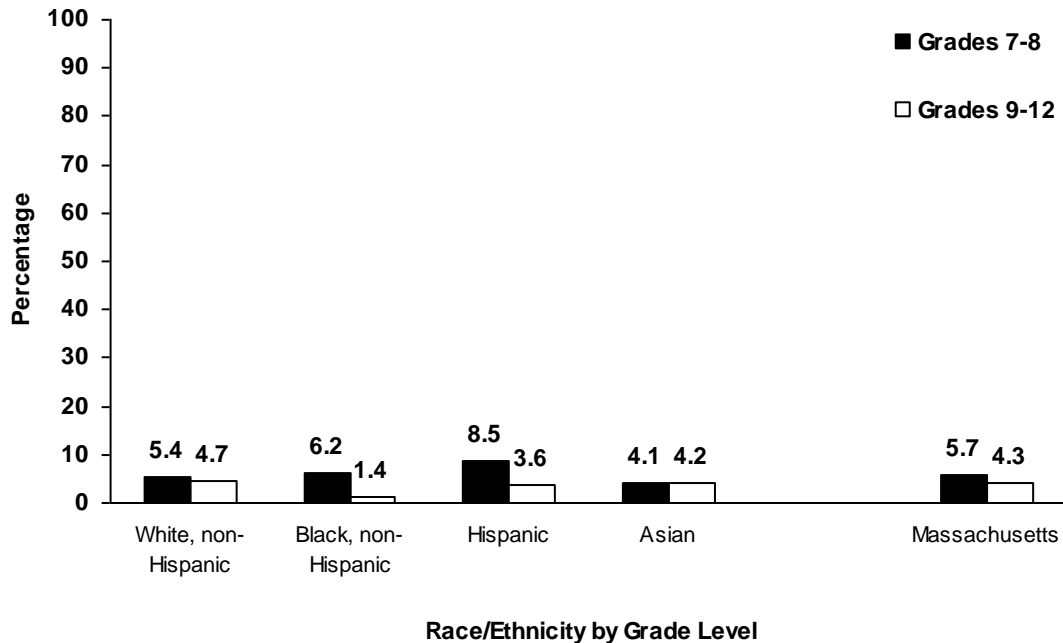
Race/Ethnicity by Grade Level

1. Data Source: Triennial School Survey: 1999, Massachusetts Department of Public Health. Data shown here are for Grades 7-8 (Sample sizes: Black=307; White=1,470; Hispanic=368; Asian=158) and Grades 9-12 (Sample sizes: Black=504; White=2,251; Hispanic=443; Asian=197).

**Percentage Currently Using Marijuana
by Race/Hispanic Ethnicity and Grade Level,
Massachusetts: 1999¹**

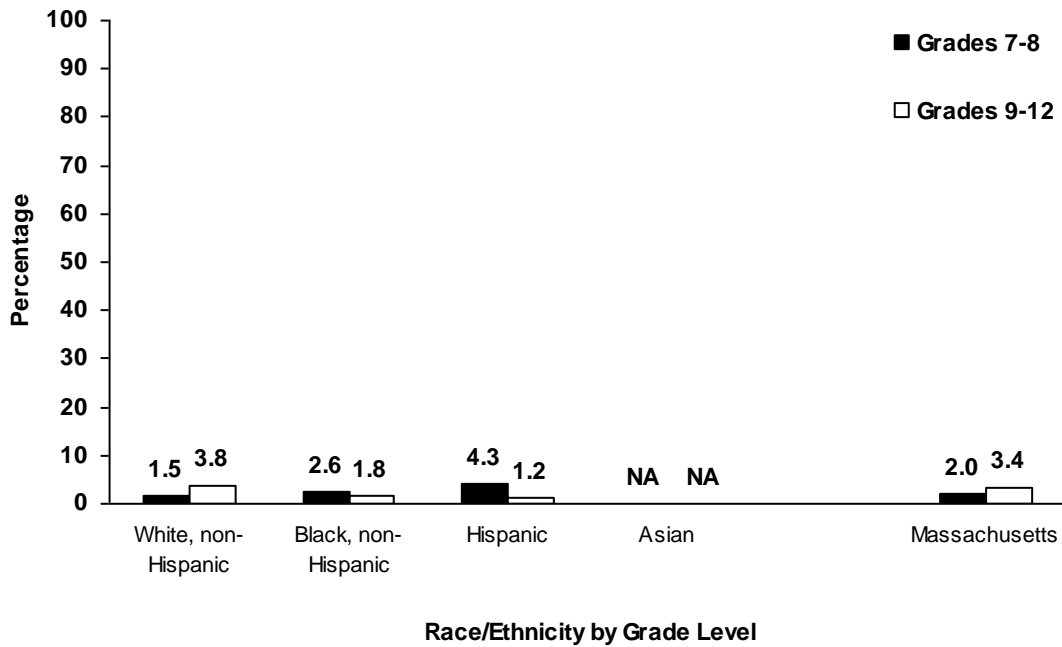


**Percentage Currently Using Inhalants
by Race/Hispanic Ethnicity and Grade Level,
Massachusetts: 1999¹**

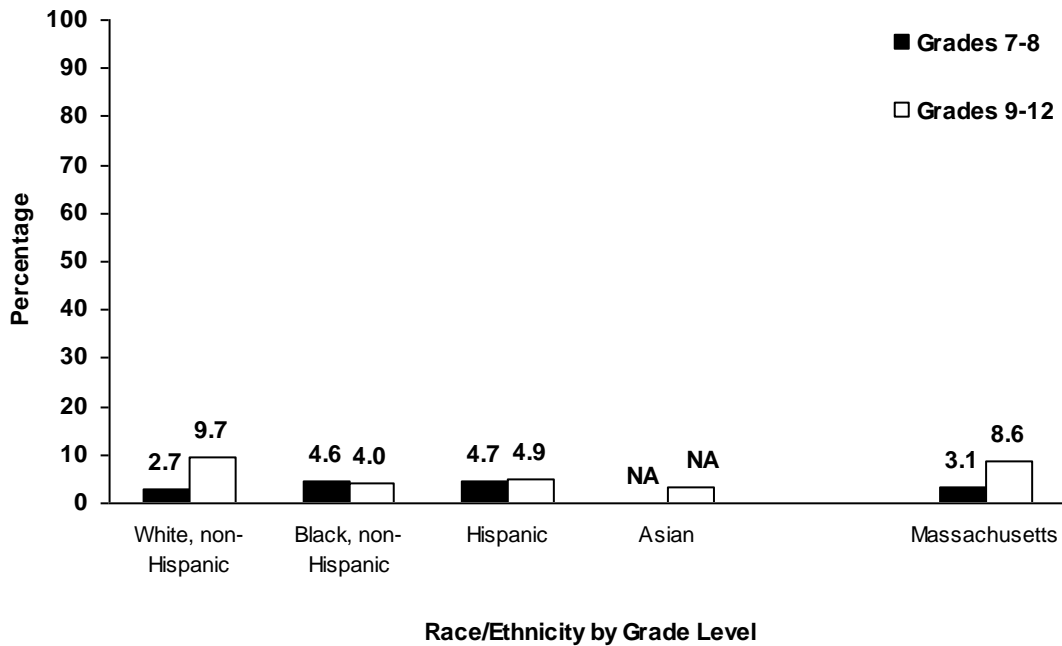


1. Data Source: Triennial School Survey: 1999, Massachusetts Department of Public Health. Data shown here are for Grades 7-8 (Sample sizes: Black=307; White=1,470; Hispanic=368; Asian=158) and Grades 9-12 (Sample sizes: Black=504; White=2,251; Hispanic=443; Asian=197).

**Percentage Currently Using Cocaine
by Race/Hispanic Ethnicity and by Grade Level,
Massachusetts: 1999¹**

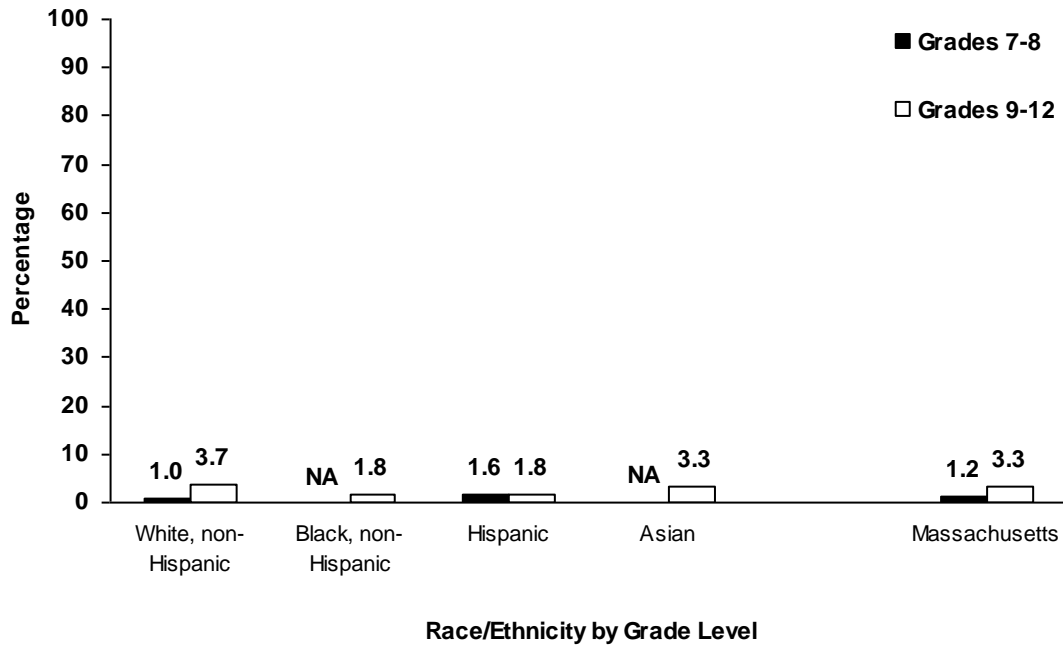


**Percentage of Current Unauthorized² Use of Tranquilizers
by Race/Hispanic Ethnicity and by Grade Level,
Massachusetts: 1999¹**



1. Data Source: Triennial School Survey: 1999, Massachusetts Department of Public Health. Data shown here are for Grades 7-8 (Sample sizes: Black=307; White=1,470; Hispanic=368; Asian=158) and Grades 9-12 (Sample sizes: Black=504; White=2,251; Hispanic=443; Asian=197). 2. "Unauthorized Use" defined as use without a prescription.
Note: NA=Percentages based on fewer than five events are excluded.

**Percentage Currently Using Narcotics¹
by Race/Hispanic Ethnicity and Grade Level,
Massachusetts: 1999²**



1. "Narcotics" are defined here as including: heroin, methadone, codeine, pareforix, dilauidids, and percodan. 2. Data Source: Triennial School Survey: 1999, Massachusetts Department of Public Health. Data shown here are for Grades 7-8 (Sample sizes: Black=307; White=1,470; Hispanic=368; Asian=158) and Grades 9-12 (Sample sizes: Black=504; White=2,251; Hispanic=443; Asian=197).

Note: NA= Percentages based on fewer than five events are excluded.

Risk Behaviors: High School Students

Youth Risk Behavior Survey: 1999
Grades 9-12

A Note about the Youth Risk Behavior Survey (YRBS):

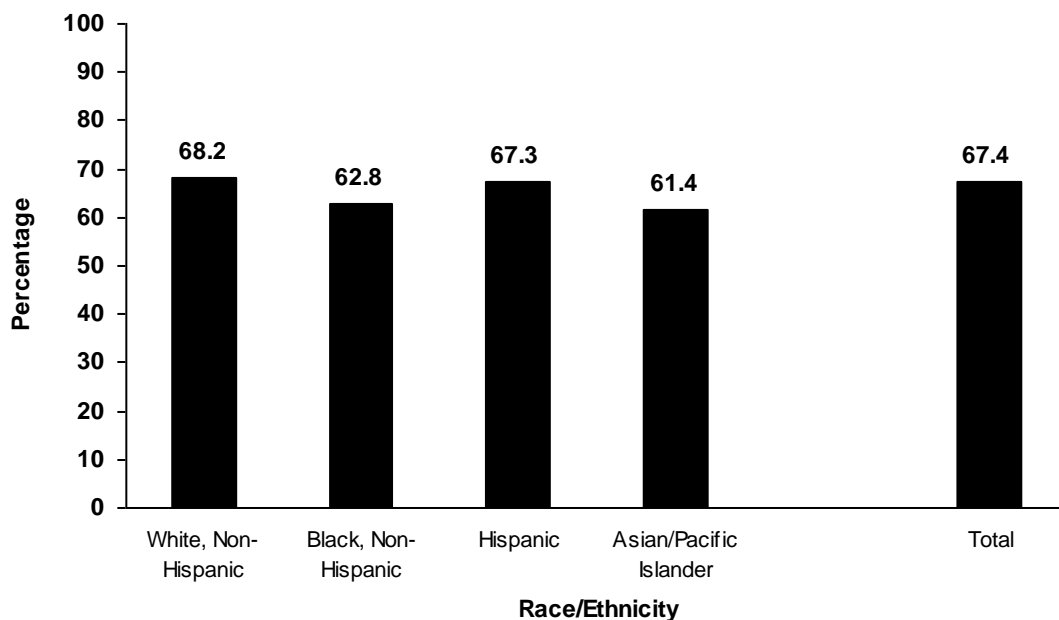
The Massachusetts Department of Education conducts the Youth Risk Behavior Survey (YRBS), which randomly selects public high schools in Massachusetts to survey on issues relating to leading causes of morbidity and mortality among youth and adults in the United States. The survey is voluntary and anonymous.

The 1999 survey sampled 4,415 students in grades 9-12 in 64 schools during the spring of 1999. The total numbers of students surveyed in 1999 (for race groups presented in this chapter) are as follows: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278.

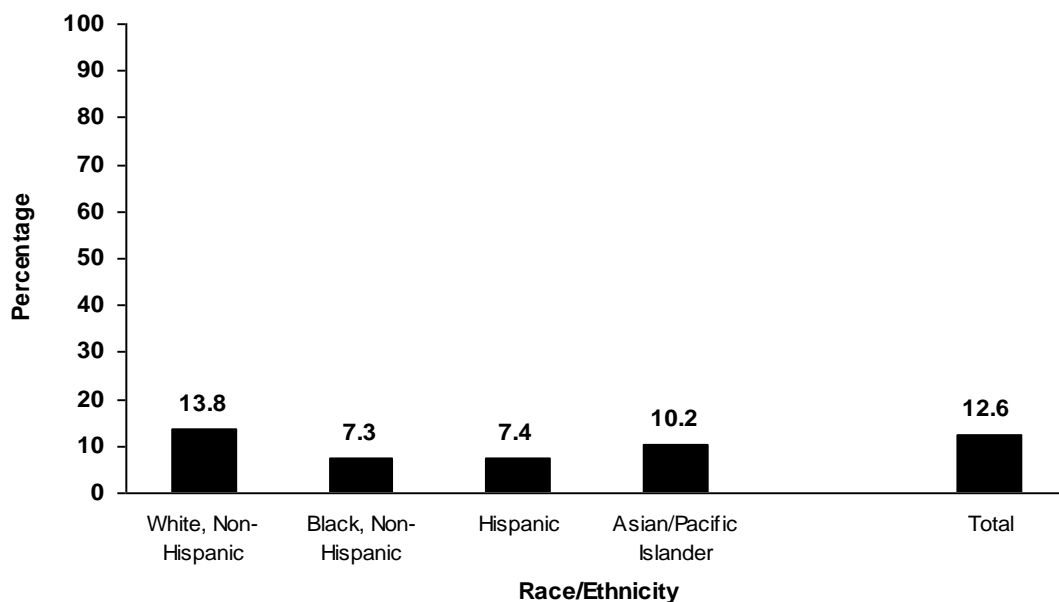
Note: Students in 1999 were allowed to indicate multiple ethnic categories. If Hispanic/Latino was indicated as an ethnic identification, whether alone or in combination with other ethnic categories, the student was categorized as Hispanic/Latino.

For more information, contact the Department of Education (781-338-3603).

**Percentage of High School Students Reporting Ever Smoking Cigarettes¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

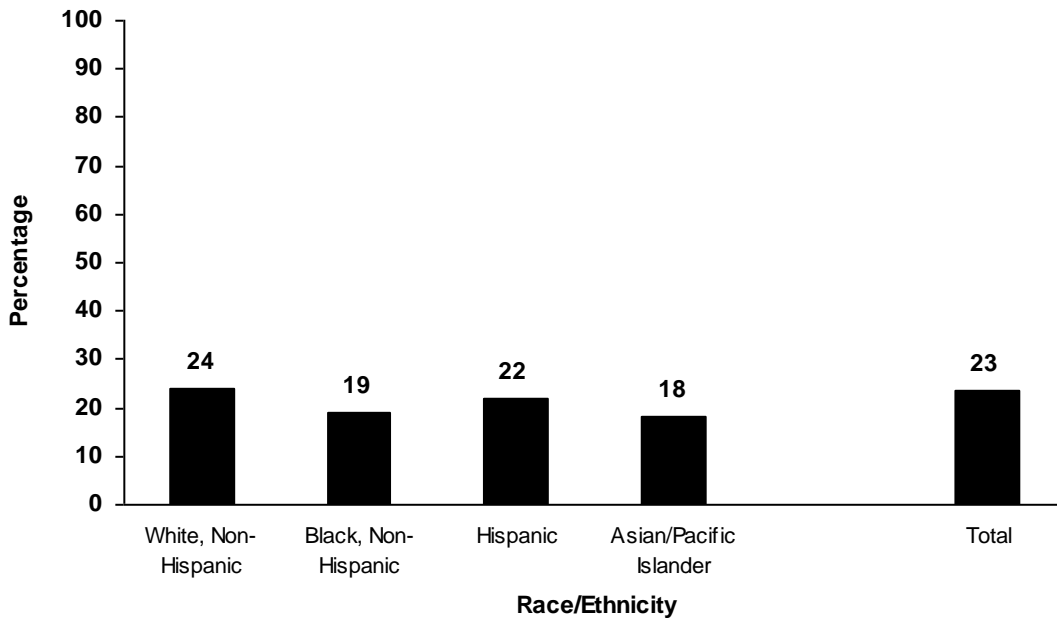


**Percentage of High School Students Reporting Smoking Cigarettes
Every Day During Past Month³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

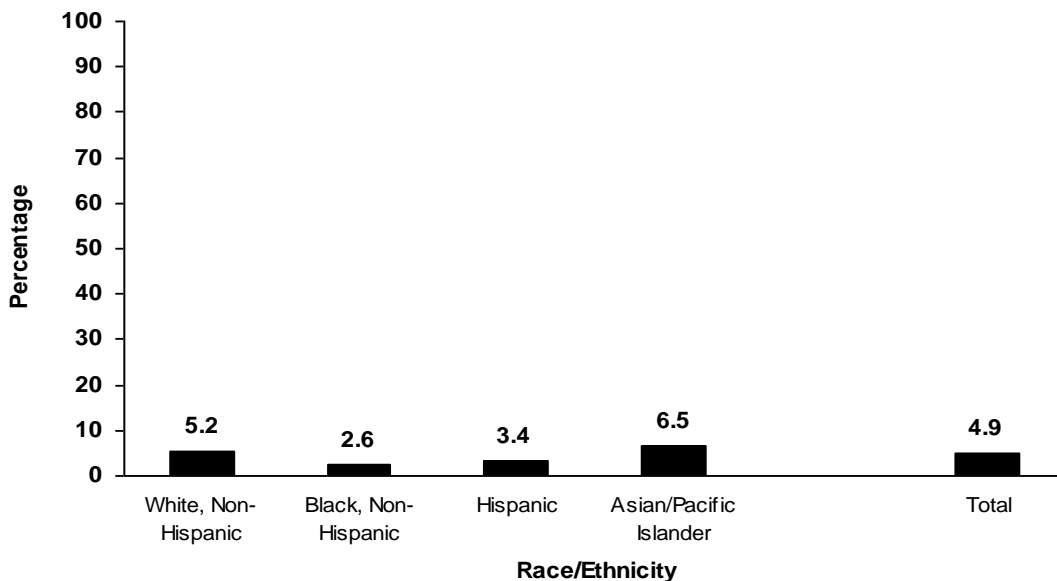


1. Based on following question: "Have you ever tried cigarette smoking, even one or 2 puffs?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During the past 30 days, on how many days did you smoke cigarettes?"

**Percentage of High School Students Reporting Cigarette Smoking¹
Before Age 13
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

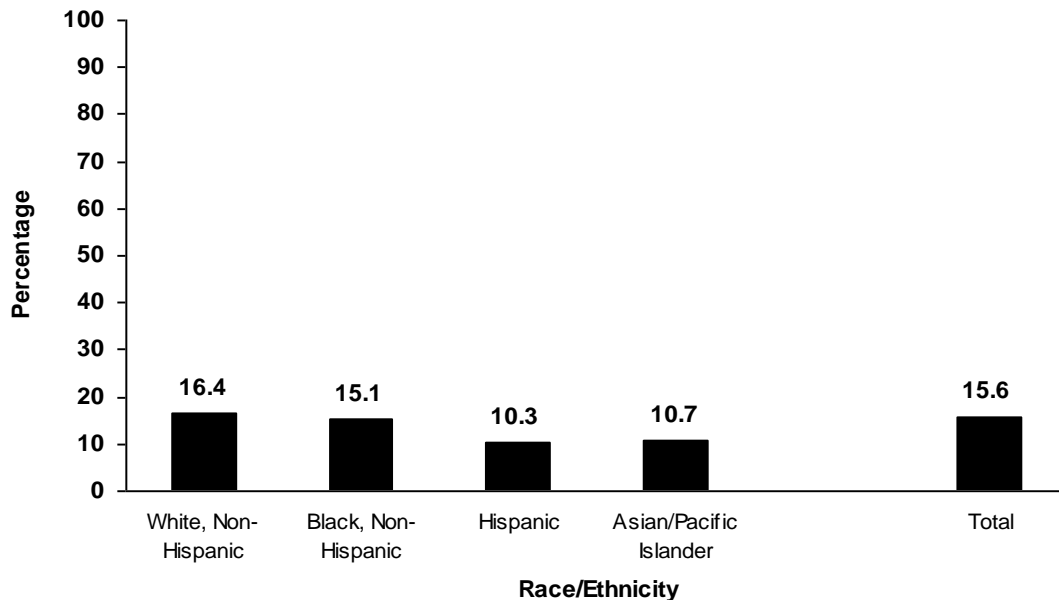


**Percentage of High School Students Reporting Using Smokeless Tobacco³
During Past Month
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

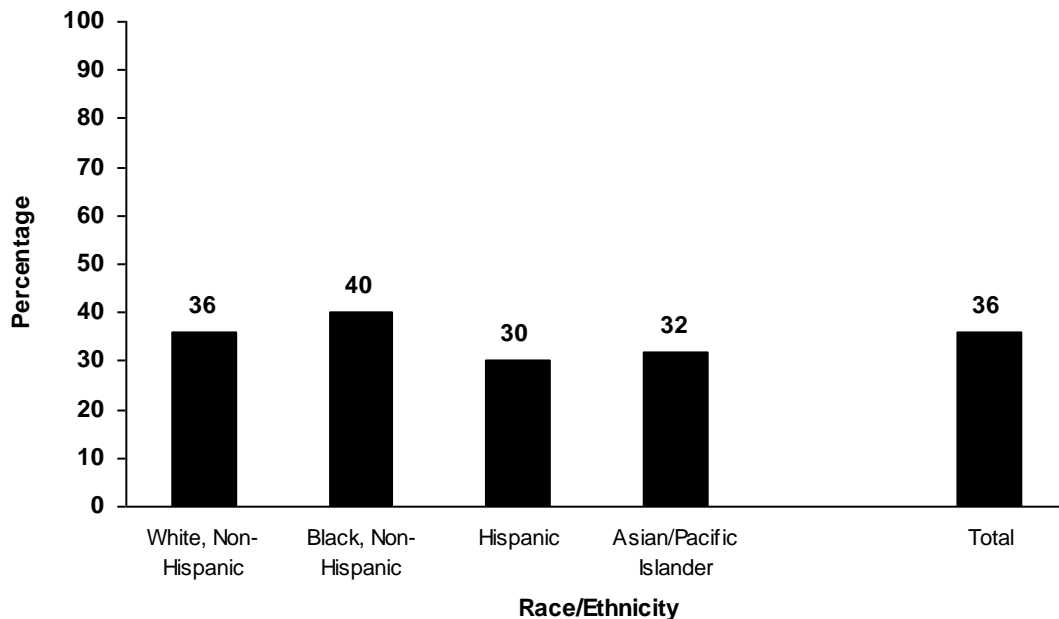


1. Based on following question: "How old were you when you smoked a whole cigarette for the first time?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During the past 30 days, on how many days did you use chewing tobacco or snuff, such as Redman, Levi, Garrett, Beechnut, Skoal, Skoal Bandits or Copenhagen?"

**Percentage of High School Students Smoking Cigars¹ in Past Month
by Race/Hispanic Ethnicity, Massachusetts: 1999²**



**Percentage of High School Students Reporting Being Offered, Sold, or Given
Illegal Drugs While at School³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

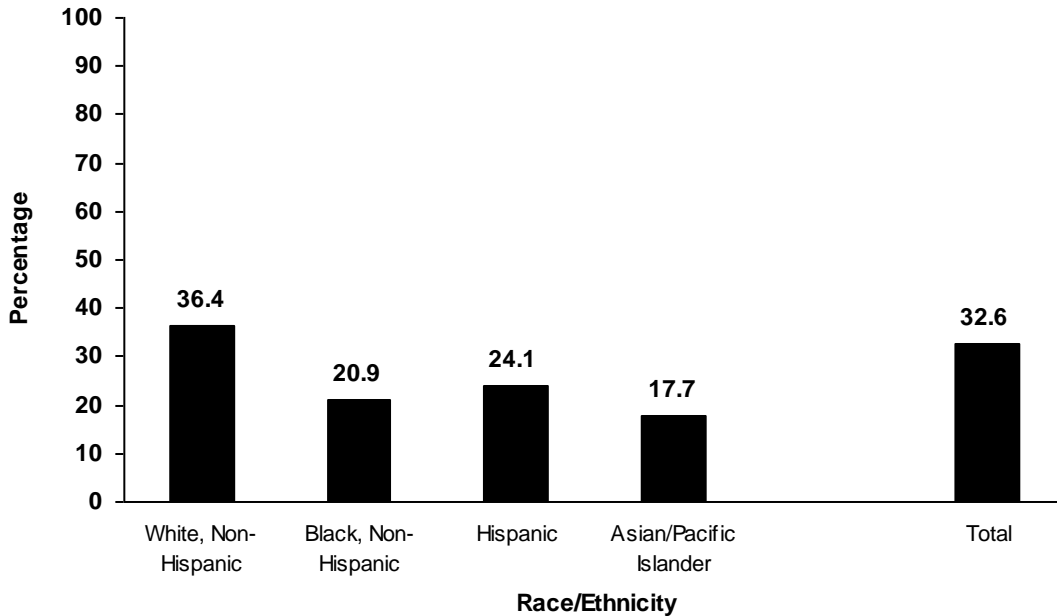


1. Based on following question: "During the past 30 days, on how many days did you smoke cigars, cigarillos, or little cigars?"

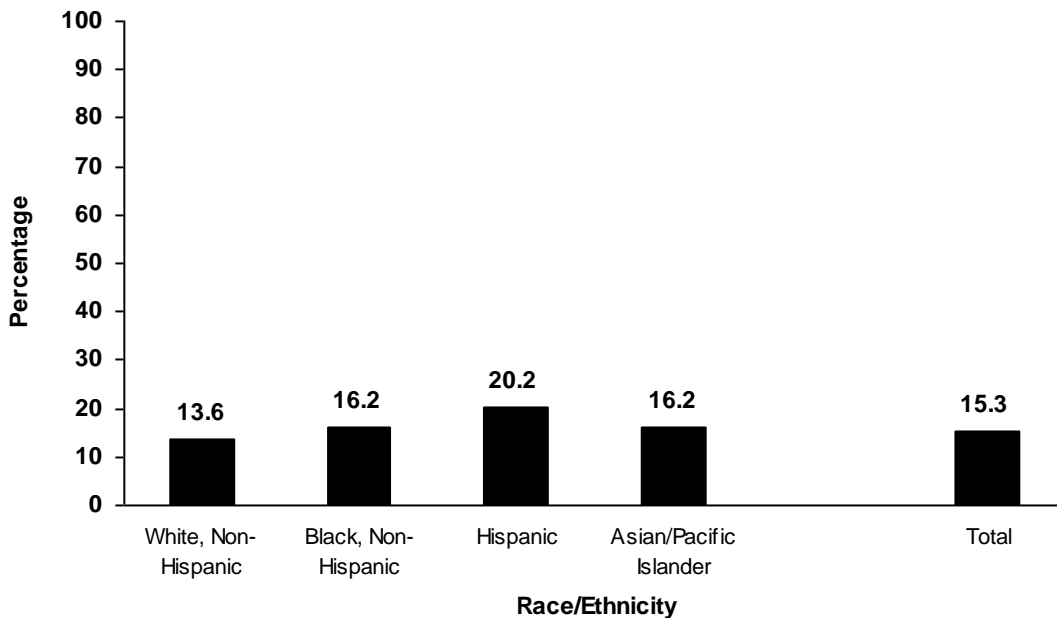
2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116;

Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During the past 12 months, has anyone offered, sold, or given you an illegal drug on school property?"

**Percentage of High School Students Reporting Binge Drinking¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

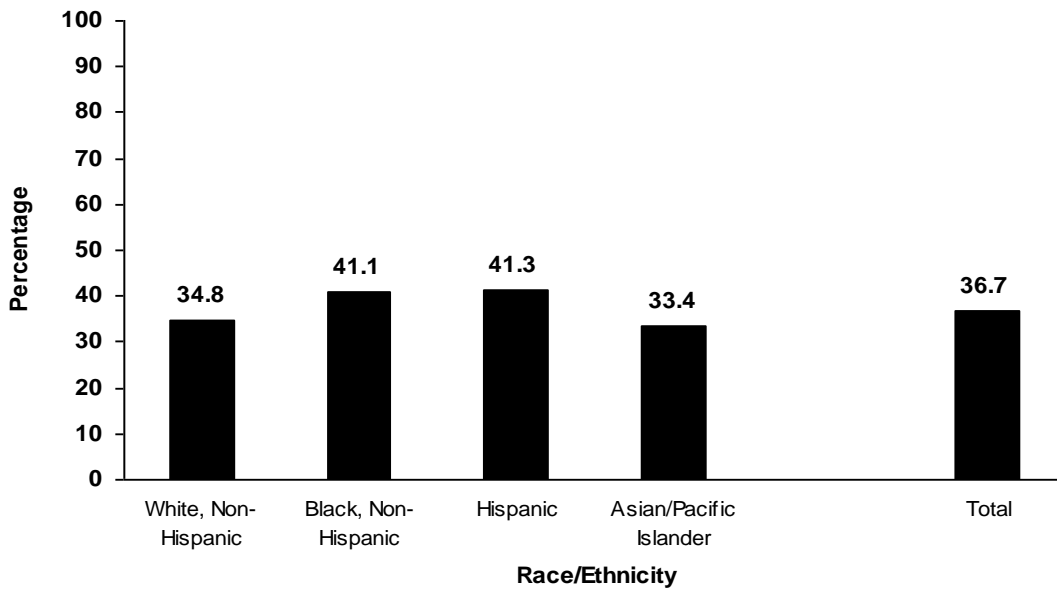


**Percentage of High School Students Who Carried a Weapon³
on School Property in the Past 30 Days
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

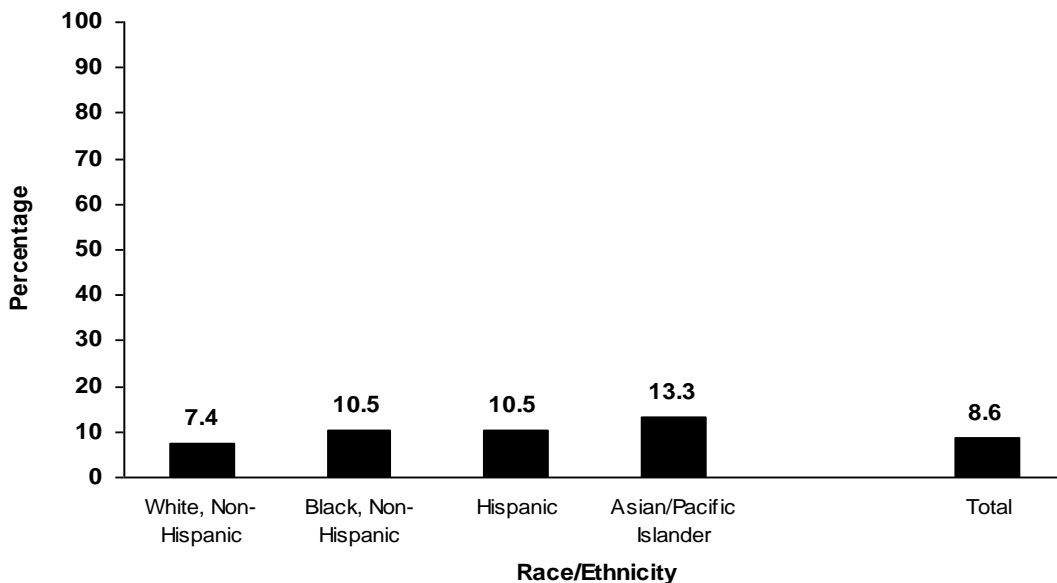


1. Based on following question: "During the past 30 days, on how many days did you have 5 or more drinks of alcohol in a row, that is with in a couple of hours?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During the past 30 days, on how many days did you carry a weapon such as a gun, knife or club on school property?"

**Percentage of High School Students Who Were Involved in At Least One Physical Fight in the Past 12 Months¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

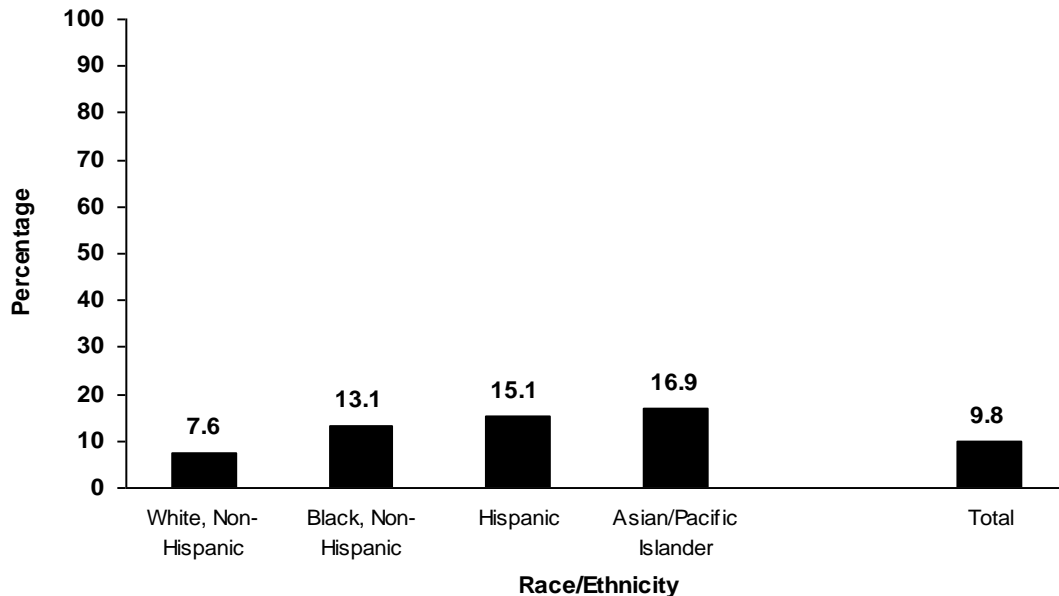


**Percentage of High School Students Who had been Threatened or Injured with a Weapon at School in the Past 12 Months³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

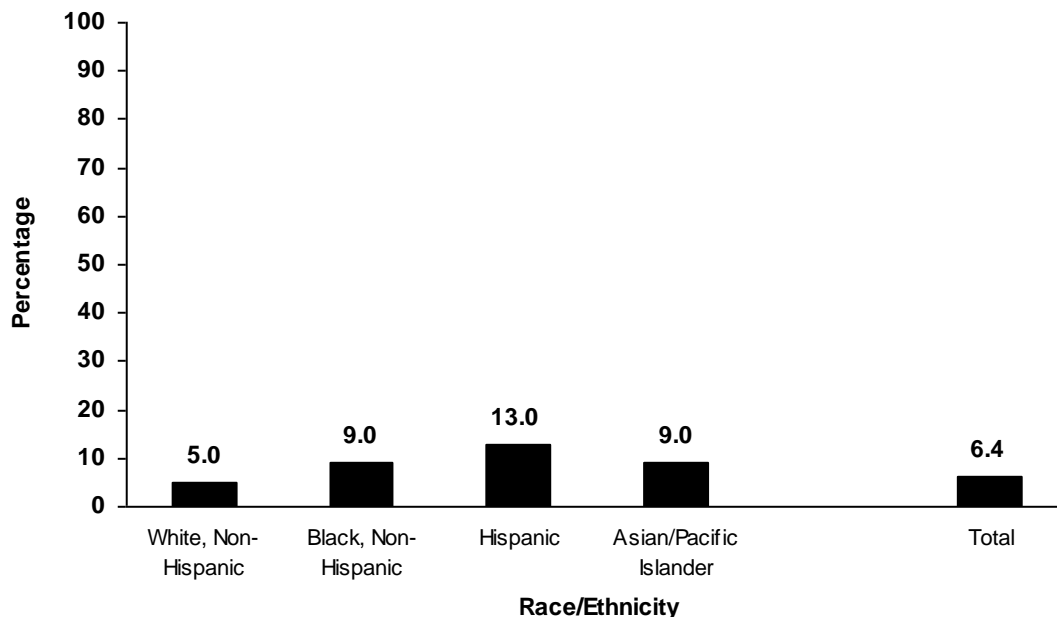


1. Based on following question: "During the past 12 months, how many times were you in a physical fight?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During the past 12 months, how many times has someone threatened or injured you with a weapon such as a gun, knife or club on school property?"

**Percentage of High School Students Reporting Being Involved in Gangs¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

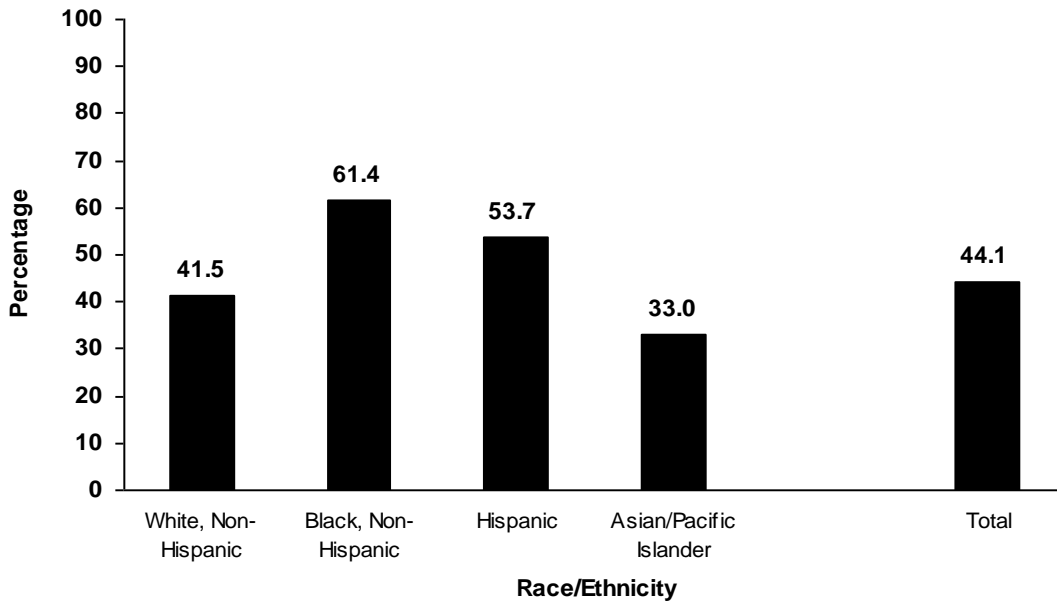


**Percentage of High School Students Who Skipped School because Felt Unsafe³
in the Past 30 Days
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

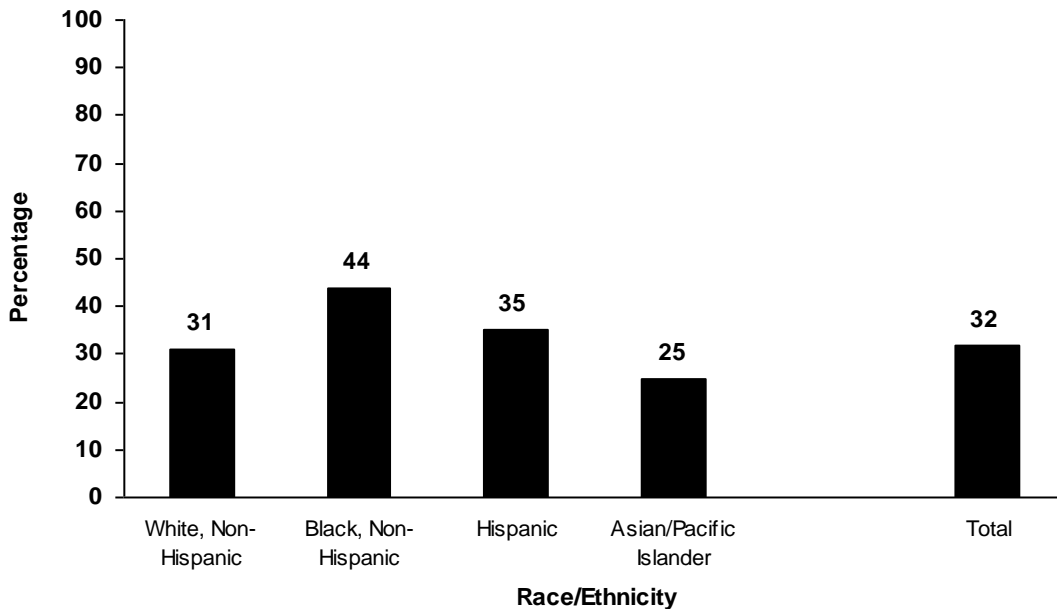


1. Based on following question: "Are you involved with a gang?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.). 3. Based on following question: "During the past 30 days, on how many days did you not go to school because you felt unsafe at school or on your way to or from school?"

**Percentage of High School Students Who Ever Had Sexual Intercourse¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

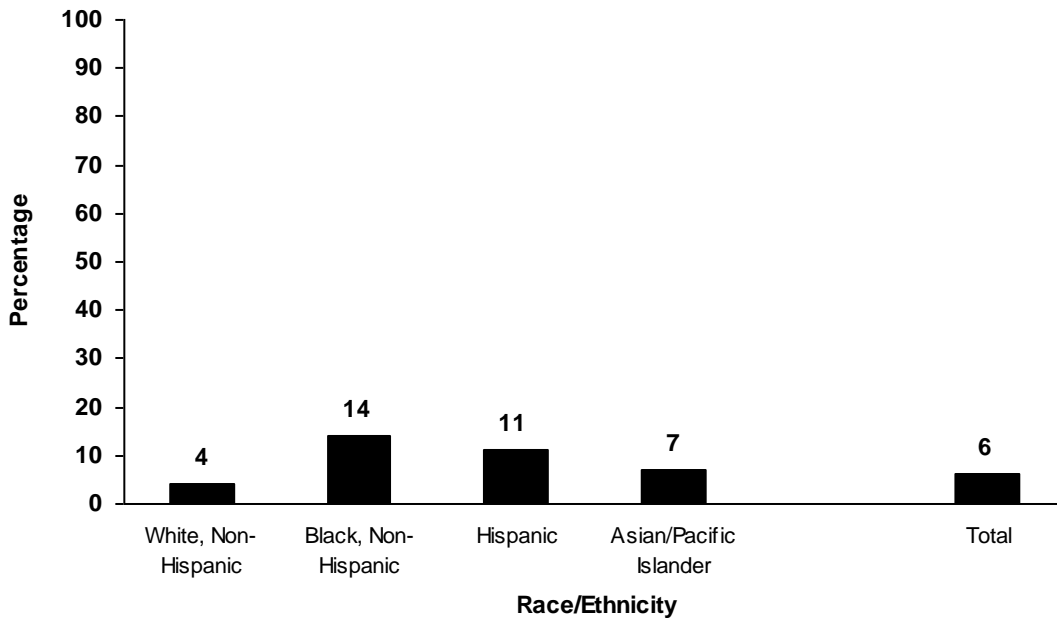


**Percentage of High School Students Who Had Sexual Intercourse
in the Past 3 Months³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

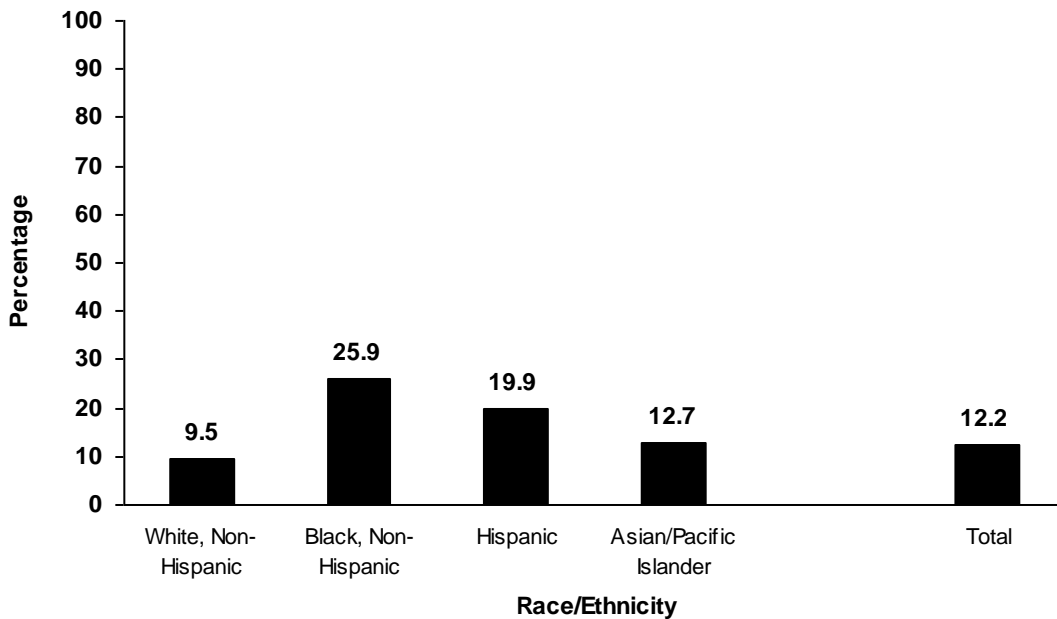


1. Based on following question: "Have you ever had sexual intercourse?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During the past 3 months, with how many people did you have sexual intercourse?"

**Percentage of High School Students Who Had Sexual Intercourse Before Age 13¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

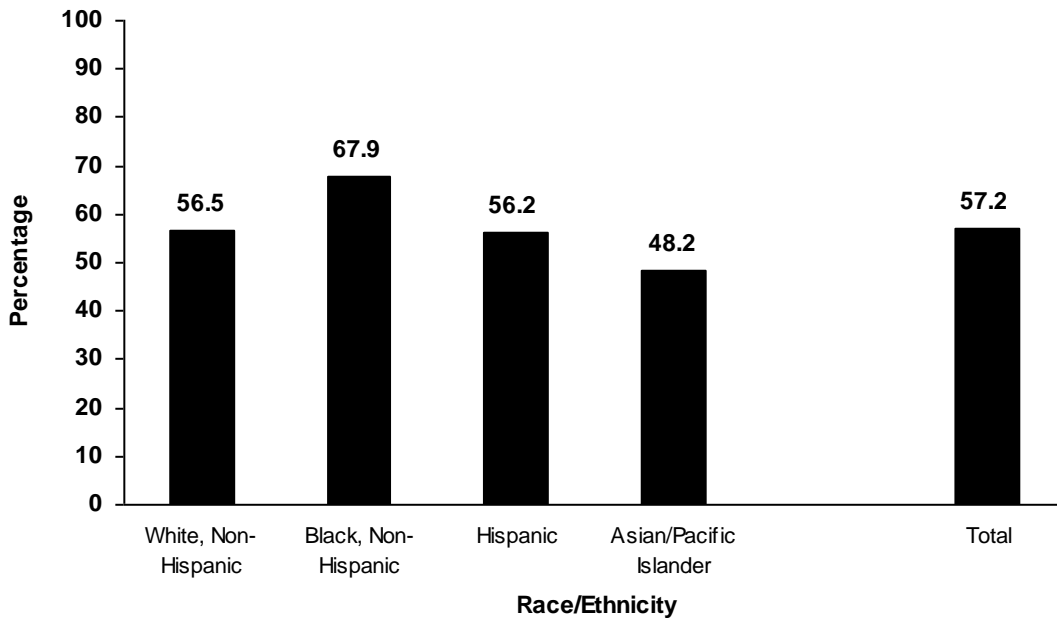


**Percentage of High School Students Reporting Having Four or More Sexual Partners During Lifetime³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

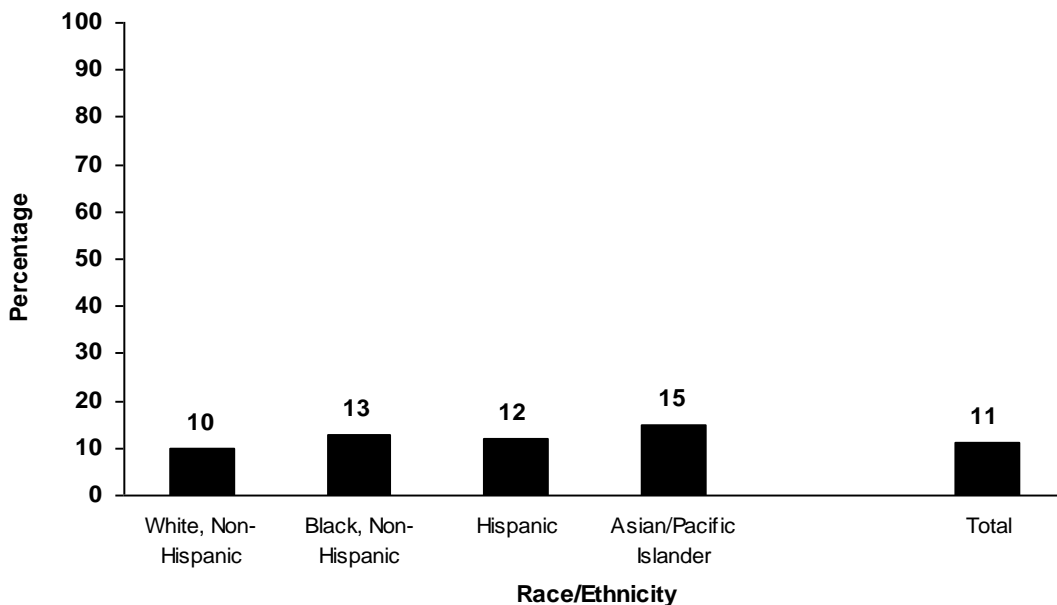


1. Based on following question: "How old were you when you had sexual intercourse for the first time?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During your life, with how many people have you had sexual intercourse?"

**Percentage of High School Students Reporting Condom Use During their Most Recent Sexual Intercourse in Prior 3 Months¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

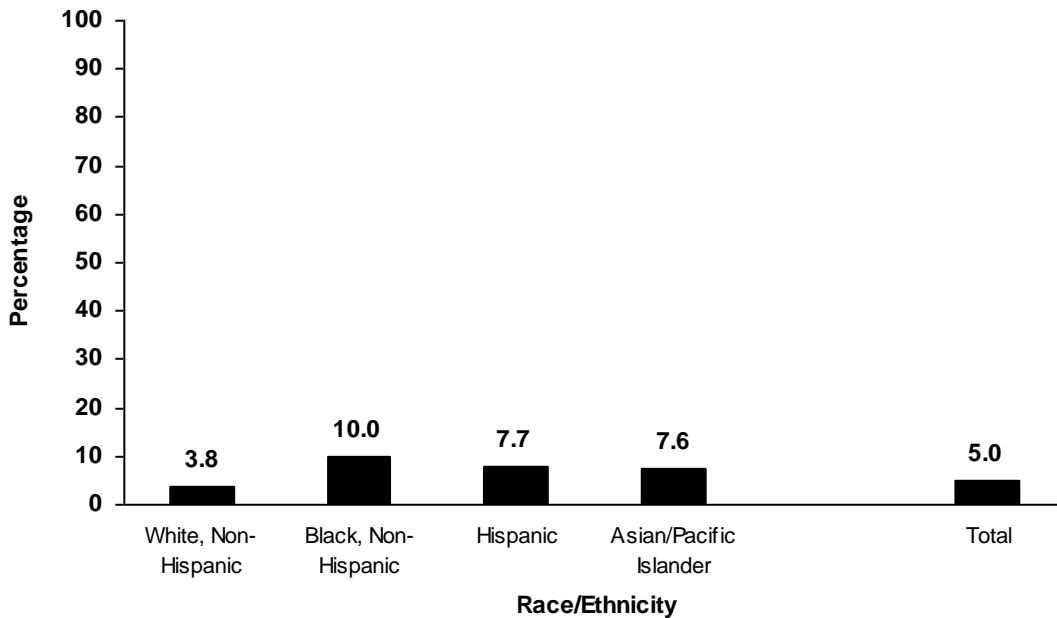


**Percentage of High School Students Who Ever Had Sexual Contact Against Their Will³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

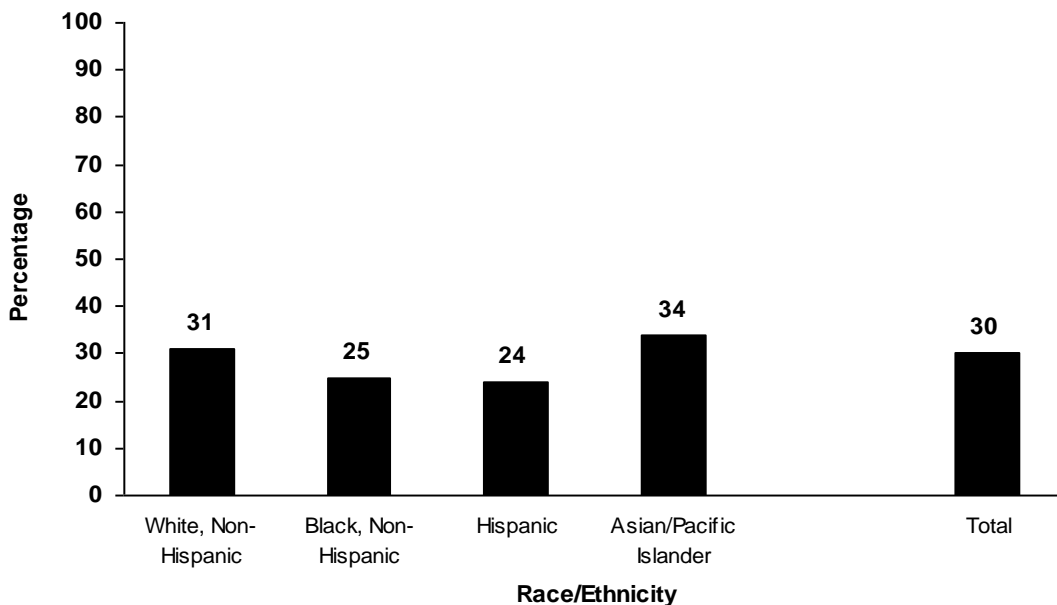


1. Based on following question: "The last time you had sexual intercourse, did you or your partner use a condom?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During your life, has anyone ever had sexual contact with you against your will?"

**Percentage of High School Students Reporting Ever Been Pregnant or
Ever Getting Anyone Pregnant¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

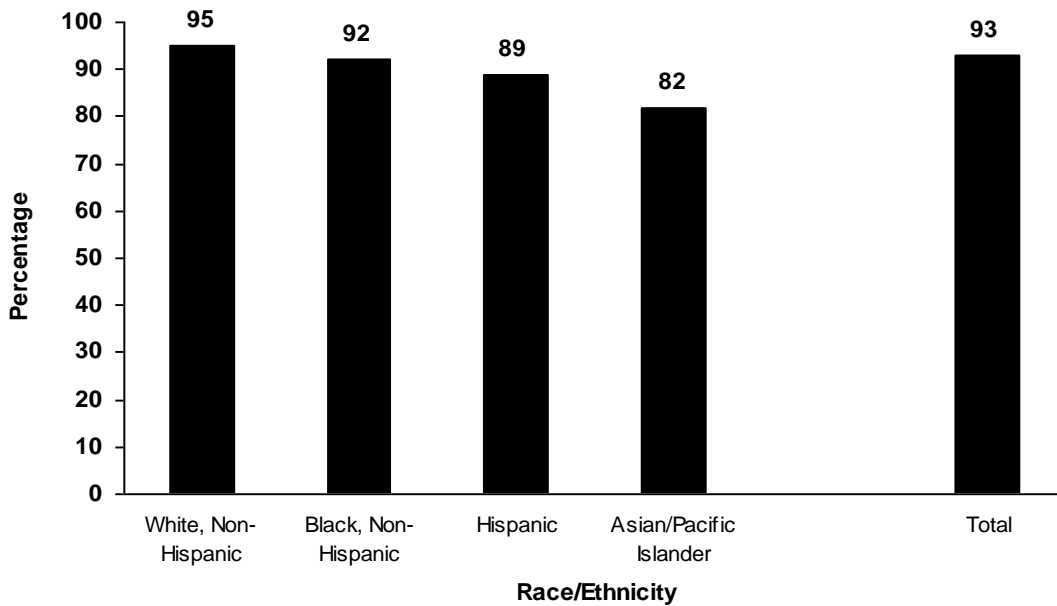


**Percentage of High School Students Reporting Alcohol or Drug Use
Before Most Recent Sexual Intercourse in Previous 3 Months³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

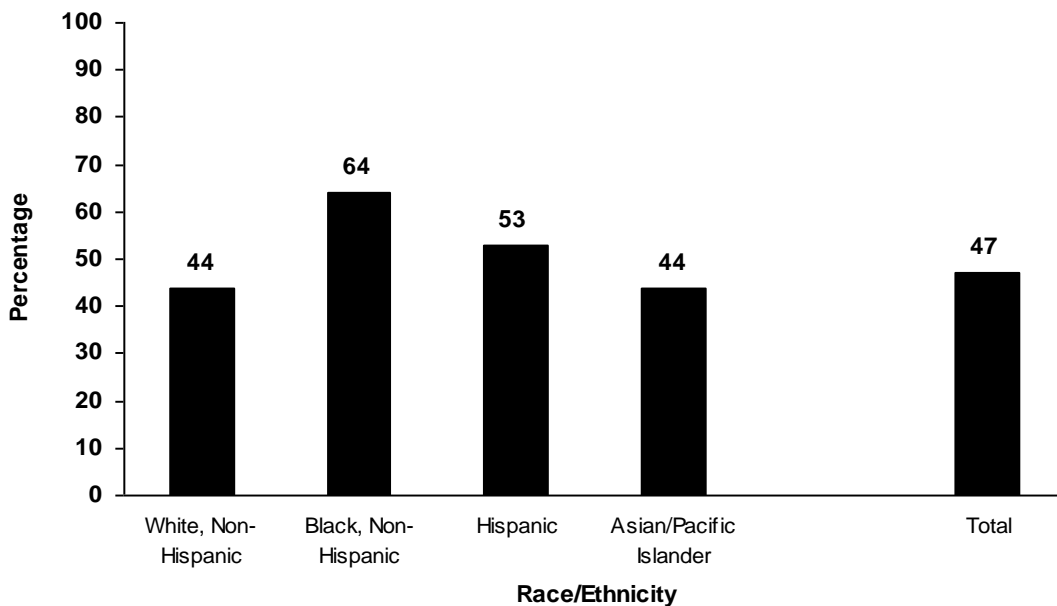


1. Based on following question: "Have many times have you been pregnant or gotten someone pregnant?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "Did you drink alcohol or use drugs before you had sexual intercourse the last time?"

**Percentage of High School Students Reporting Receiving AIDS
Prevention Education at School¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

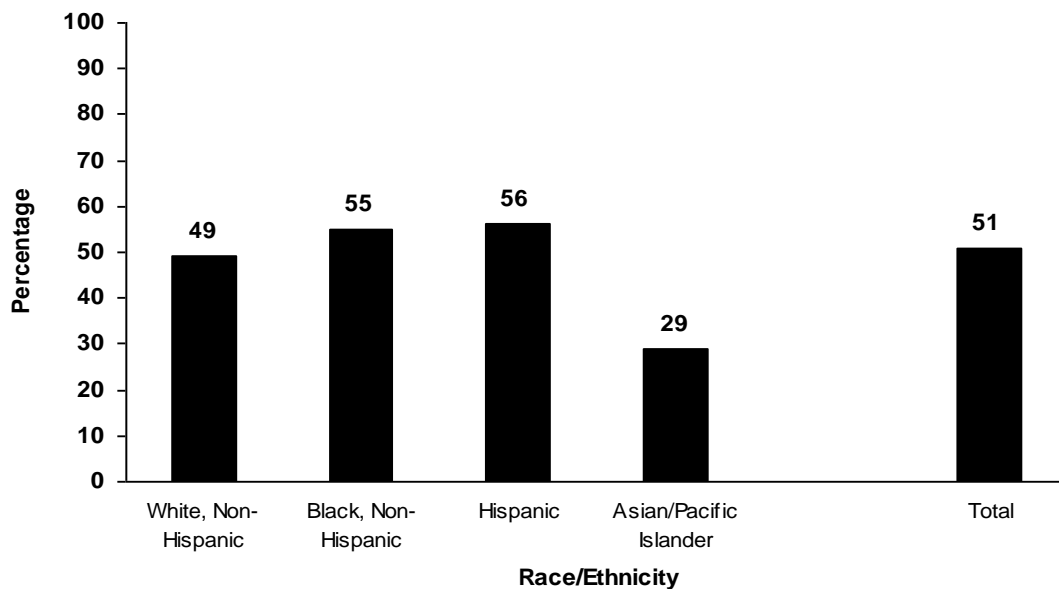


**Percentage of High School Students Reporting Being Taught at School
How to Use Condoms³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

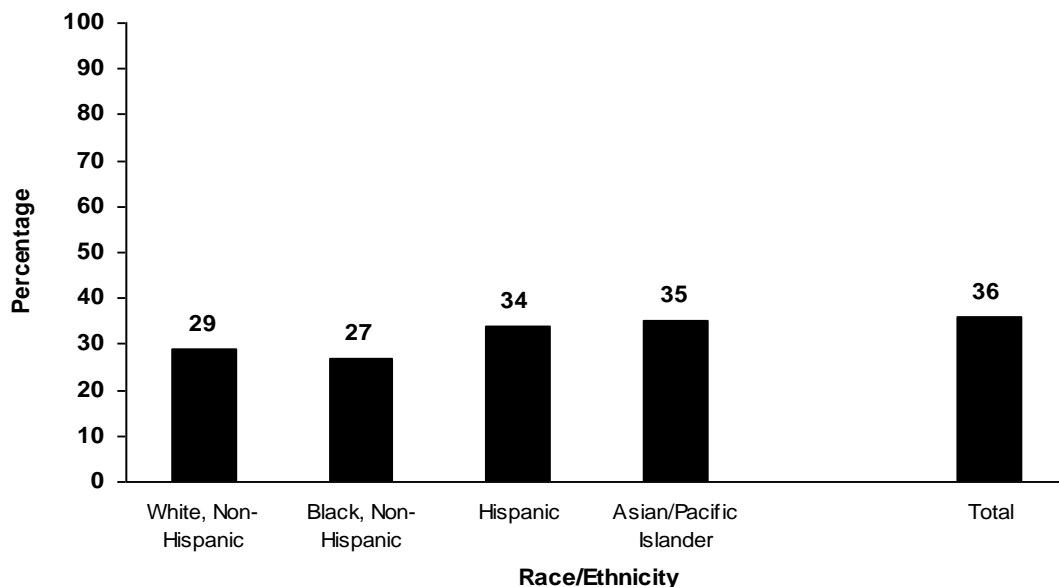


1. Based on following question: "Have you ever been taught about AIDS or HIV infection in school?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "In school, have you been taught how to use condoms?"

**Percentage of High School Students Reporting Having At Least One Conversation About Sexual Issues with Family Adults in the Past Year¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

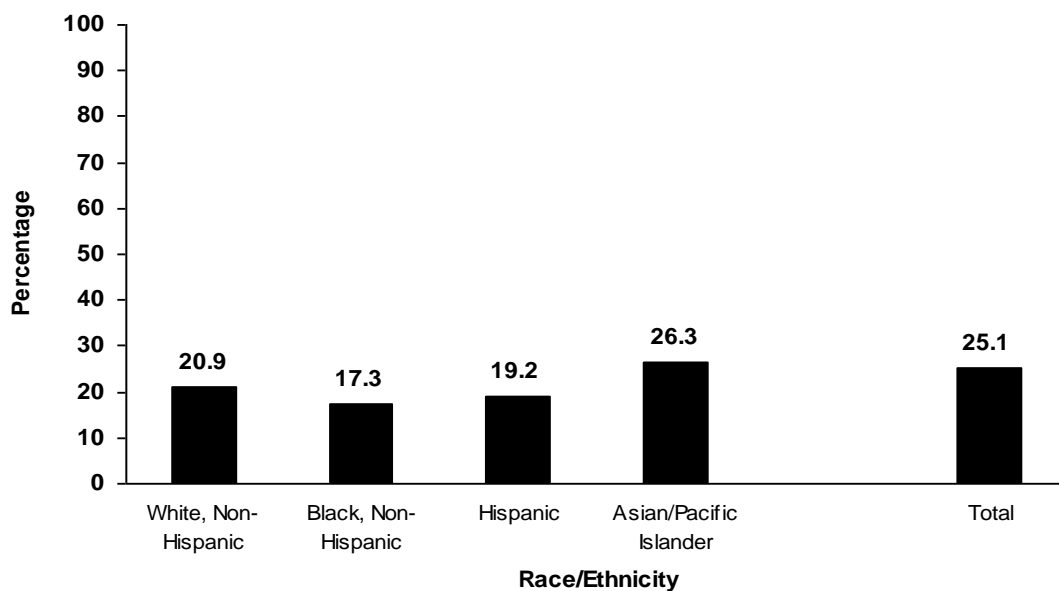


**Percentage of High School Students Reporting Feeling Depressed³
in the Past Year
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

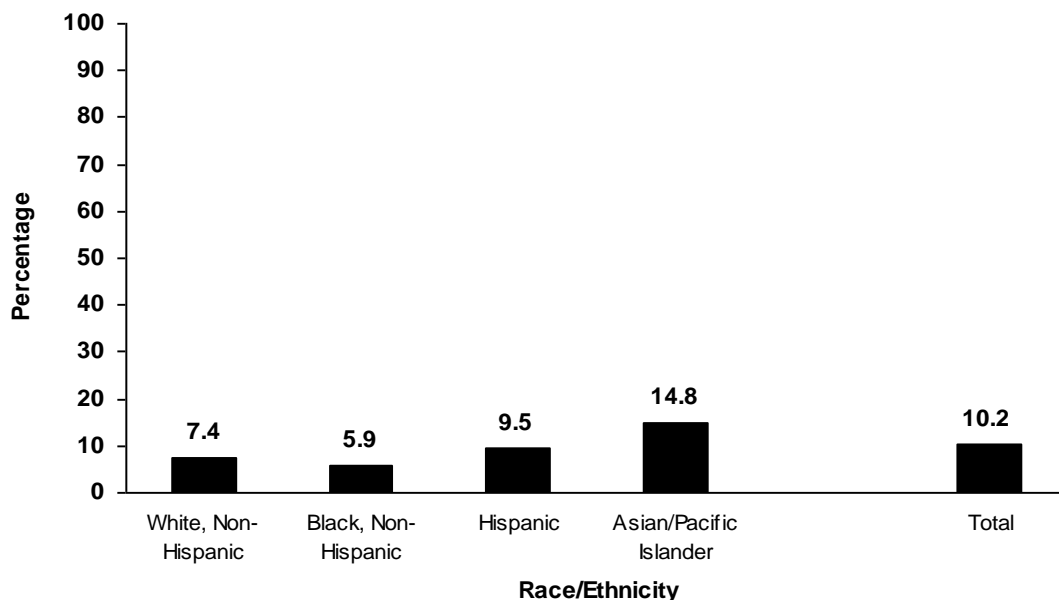


1. Based on following question: "During the past 12 months, about how often have you had a conversation with your parents or other adults in your family about sexuality or ways to prevent HIV infection, other sexually transmitted diseases (STD's) or pregnancy?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During the past 12 months, did you ever feel so sad or depressed almost every day for 2 weeks or more in a row that you stopped doing some usual activities?"

**Percentage of High School Students Reporting Seriously Considered
Suicide in the Past Year¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

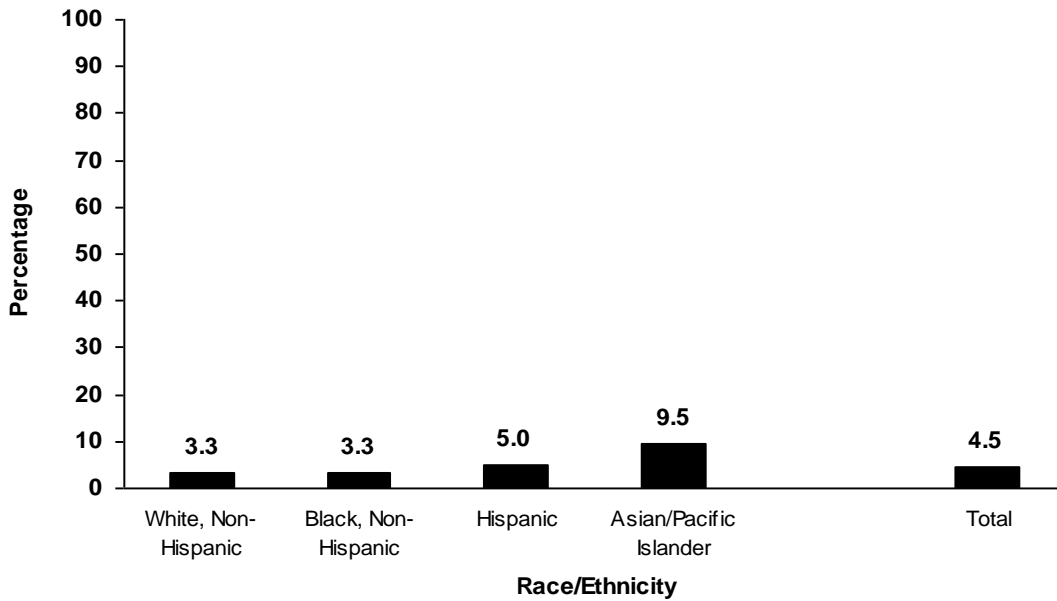


**Percentage of High School Students Reporting
Making a Suicide Attempt in Past Year³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

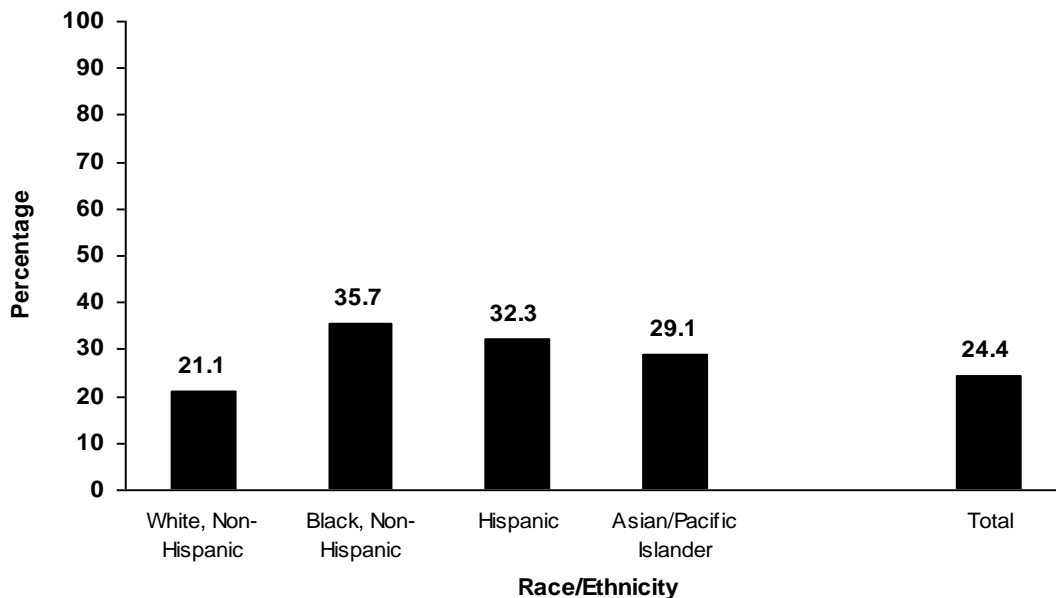


1. Based on following question: "During the past 12 months, did you ever seriously consider attempting suicide?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.). 3. Based on following question: "During the past 12 months, how many times did you actually attempt suicide?"

**Percentage of High School Students Reporting Needing Medical Treatment for
Suicide Attempt in Past Year¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

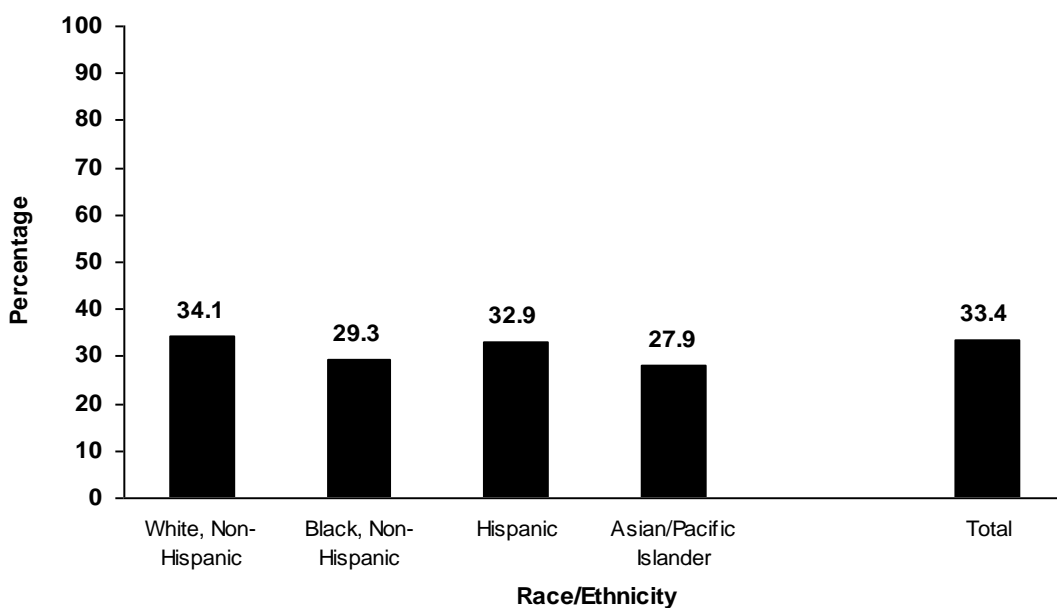


**Percentage of High School Students Reporting Never or Rarely Wearing
a Seat Belt³ by Race/Hispanic Ethnicity, Massachusetts: 1999²**

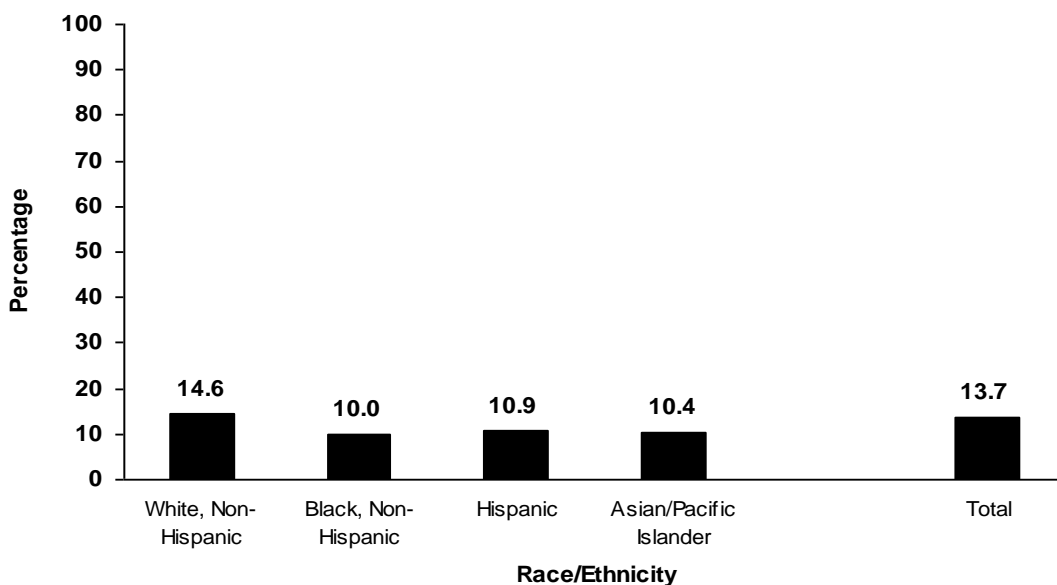


1. Based on following question: "If you attempted suicide during the past 12 months, did any attempt result in injury, poisoning, or overdose that had to be treated by a doctor or nurse?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "How often do you wear a seat belt when riding in a car driven by someone else?"

**Percentage of High School Students Reporting Ridden With Driver Who Had Been Drinking Alcohol in Past Month¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

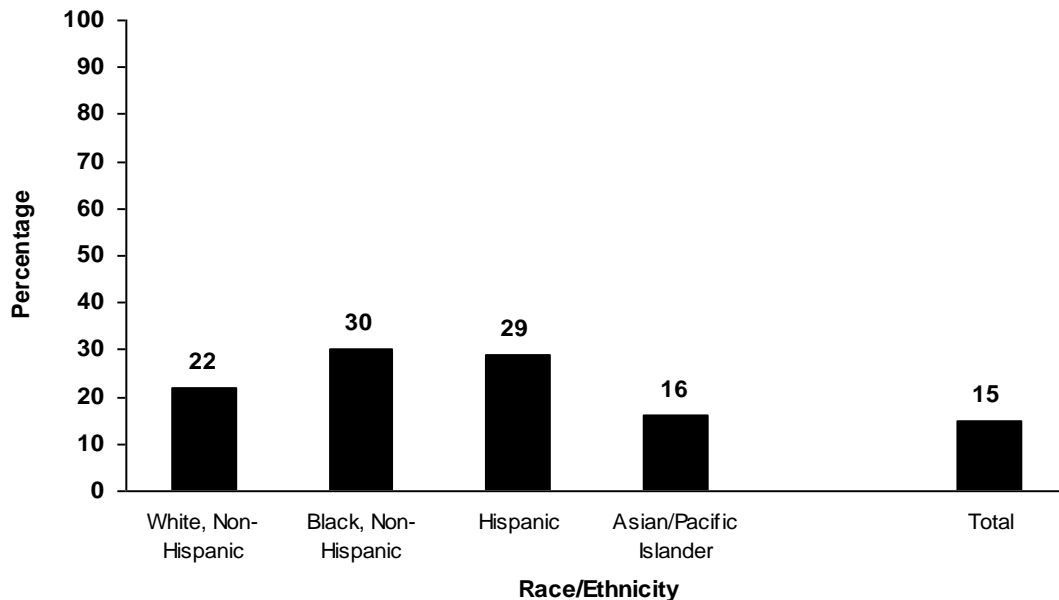


**Percentage of High School Students Reporting Driving After Drinking Alcohol in Past Month³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

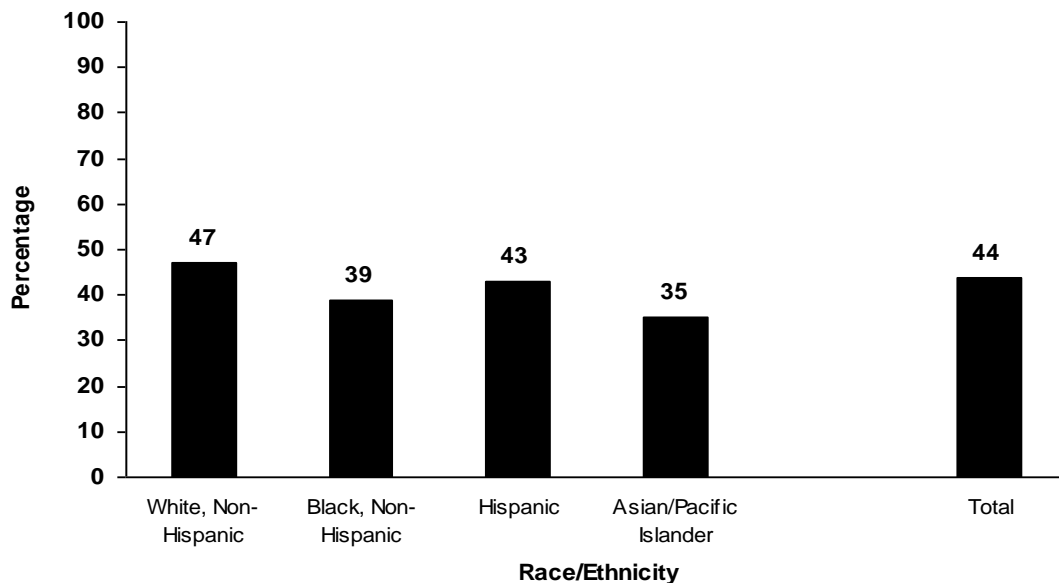


1. Based on following question: "During the past 30 days, how many times did you ride in a car or other vehicle driven by someone who had been drinking alcohol?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Based on following question: "During the past 30 days, how many times did you drive a car or other vehicle when you had been drinking alcohol?"

**Percentage of High School Students at Risk of Becoming Overweight¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

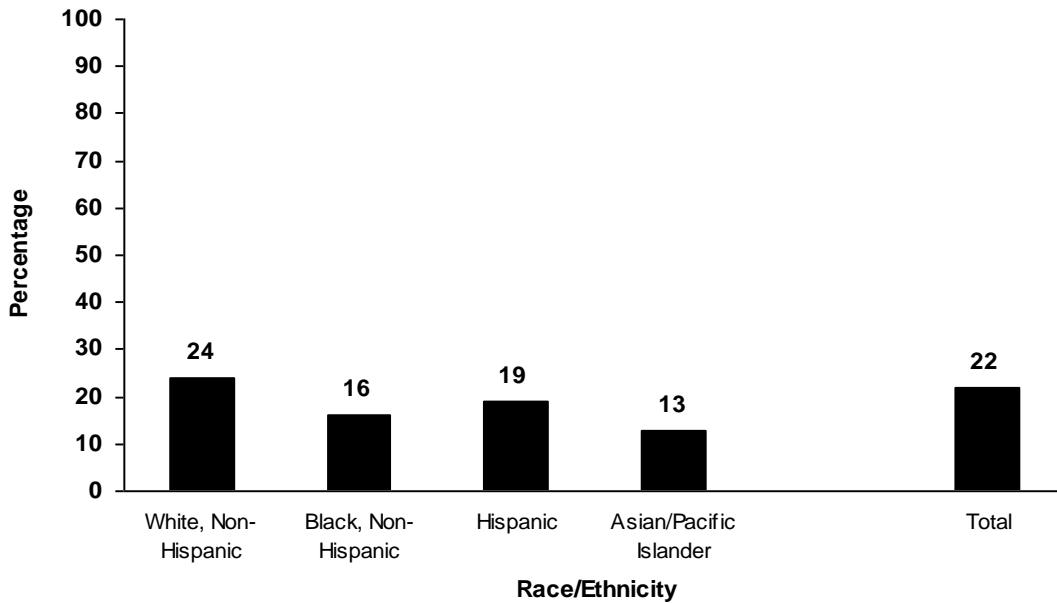


**Percentage of High School Students Reporting
Currently Trying to Lose Weight³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

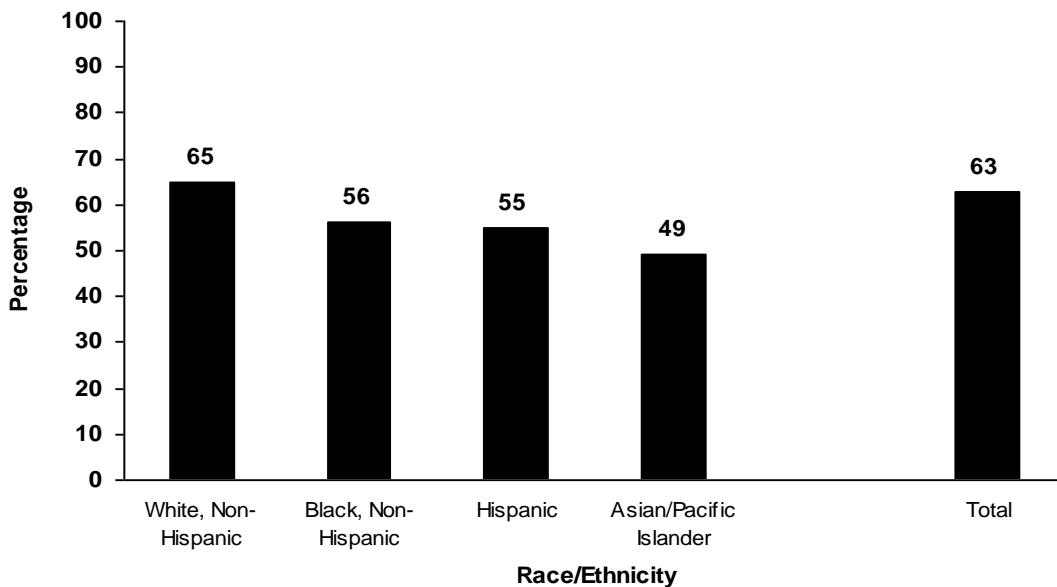


1. Students were asked to report their actual weight and height. According to standards obtained from CDC, for a 16 year old (the average age of YRBS participants), a BMI of roughly 24.5 is considered "at risk of becoming overweight", and one of 28.8 is considered overweight. 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.) 3. Students reporting using a variety of strategies within the past month to lose weight: eating less food, fewer calories, or food lower in fat, fasting or going without food for 24 hours or more, exercising, taking diet pills, and vomiting or using laxatives.

**Percentage of High School Students Reporting Drinking
3 or More Glasses of Milk Daily¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

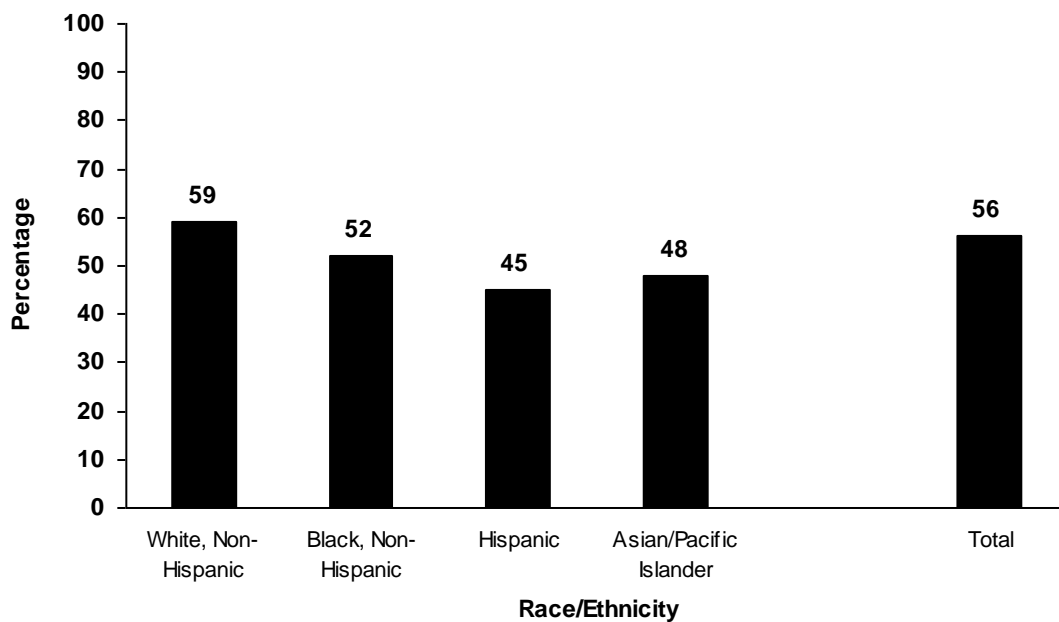


**Percentage of High School Students Reporting Engaging in the
Recommended Levels of Aerobic Exercise Each Week³
by Race/Hispanic Ethnicity, Massachusetts: 1999²**



1. Based on following question: "During the past 7 days, how many glasses of milk did you drink?" 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.). 3. Based on following question: "On how many of the past 7 days did you exercise or participate in physical activity for at least 20 minutes that made you sweat and breathe hard, such as basketball, soccer, running, swimming laps, fast bicycling, fast dancing or similar aerobic activity?"

**Percentage of High School Students Reporting Participation in Sports Teams¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**



1. Based on following question: "During the past 12 months, on how many sports teams did you play? (Include any teams run by your school or community groups)." 2. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). (Sample sizes: White=3,116; Black=292; Hispanic or Latino=485; Asian or Pacific Islander=278; Total=4,415.)

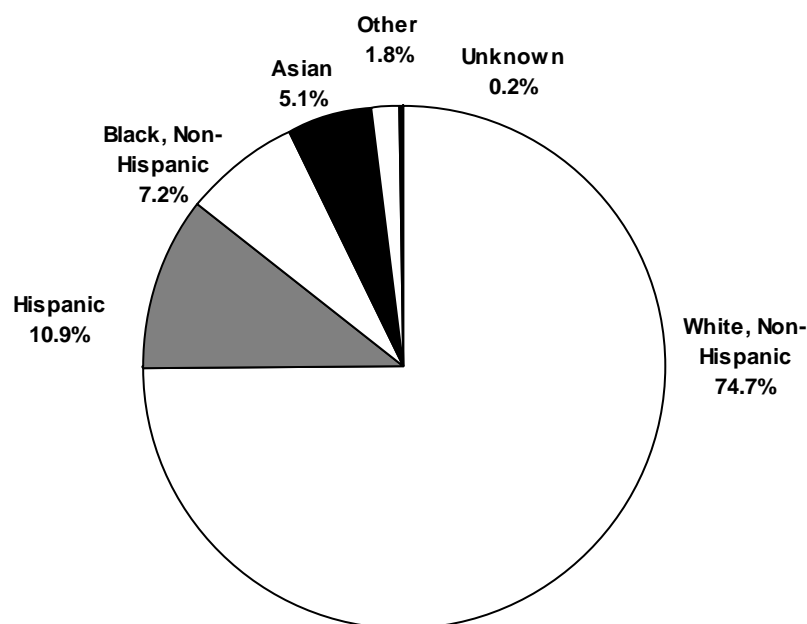
Births

Massachusetts Births: 1999

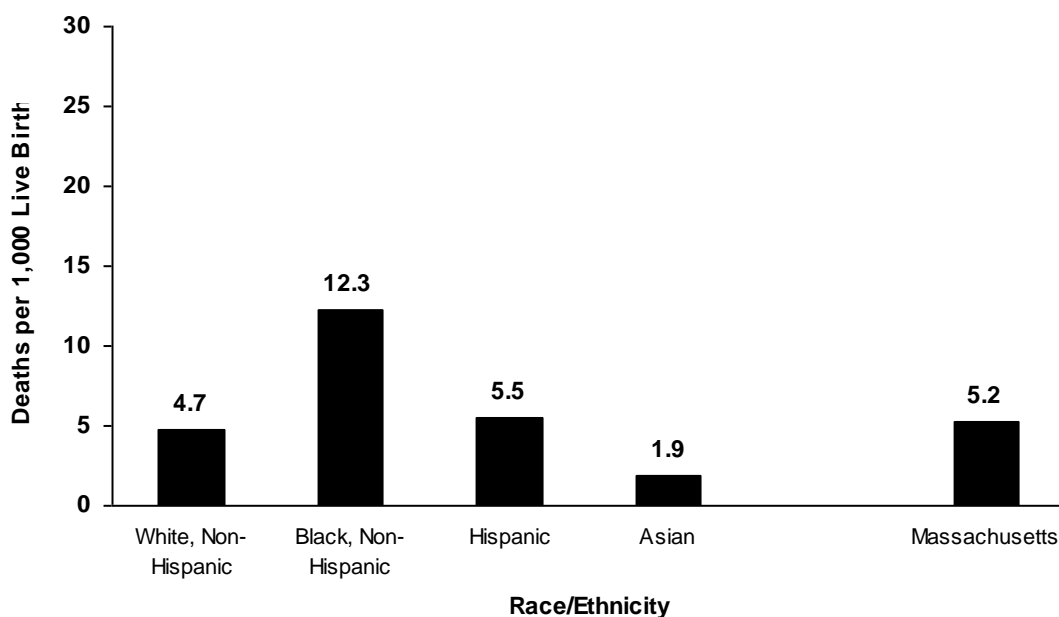
A note about birth data:

Perinatal characteristics by race and ethnicity are from the Registry of Vital Records and Statistics annual birth data file for 1999. Data are derived from birth certificates. Medical information such as birthweight and prematurity are based on information supplied by hospitals, while demographic and behavior data such as race and ethnicity, and smoking during pregnancy, are supplied by the woman who gave birth. Women self-identified their race from a choice of five categories: White, Black, Asian/Pacific Islander, American Indian, and Other. Hispanic ancestry is also self-identified by selecting any one of nine Hispanic ancestry categories (Puerto Rican, Dominican, Mexican, Cuban, Colombian, Salvadoran, other Central American, South American, and other Hispanic) from a list of 38 possible ancestry/ethnicity groups. In this chapter, race and Hispanic ethnicity categories are mutually exclusive; persons of Hispanic ethnicity are not included in other race categories. For further information, contact the Bureau of Health Statistics, Research and Evaluation, Division of Research and Epidemiology (617-624-5643).

Distribution of Births by Maternal Race/Hispanic Ethnicity, Massachusetts: 1999¹

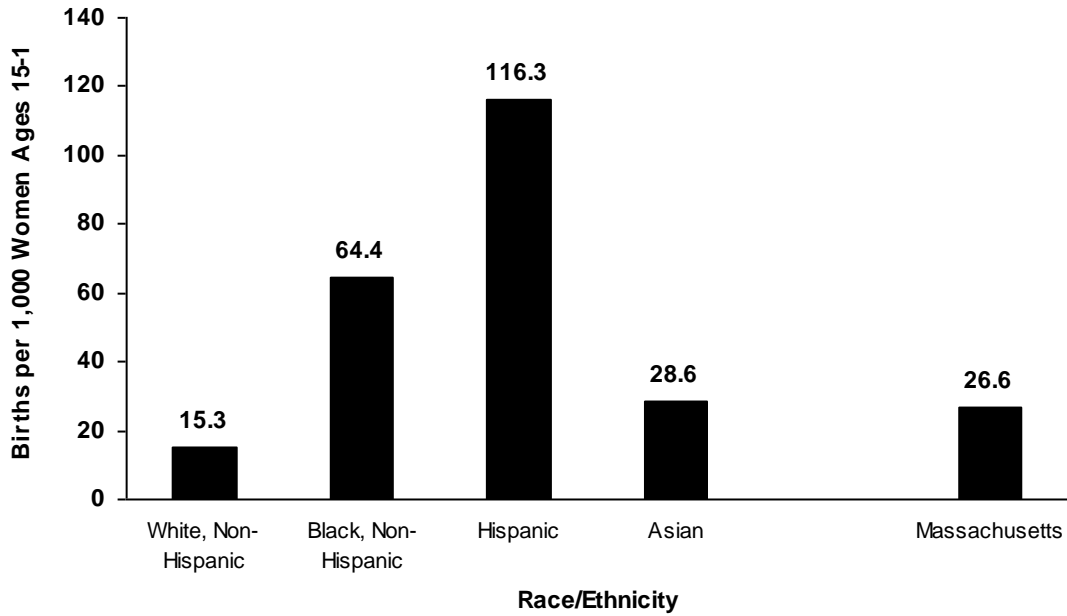


Infant Mortality Rate² by Race/Hispanic Ethnicity, Massachusetts: 1999¹

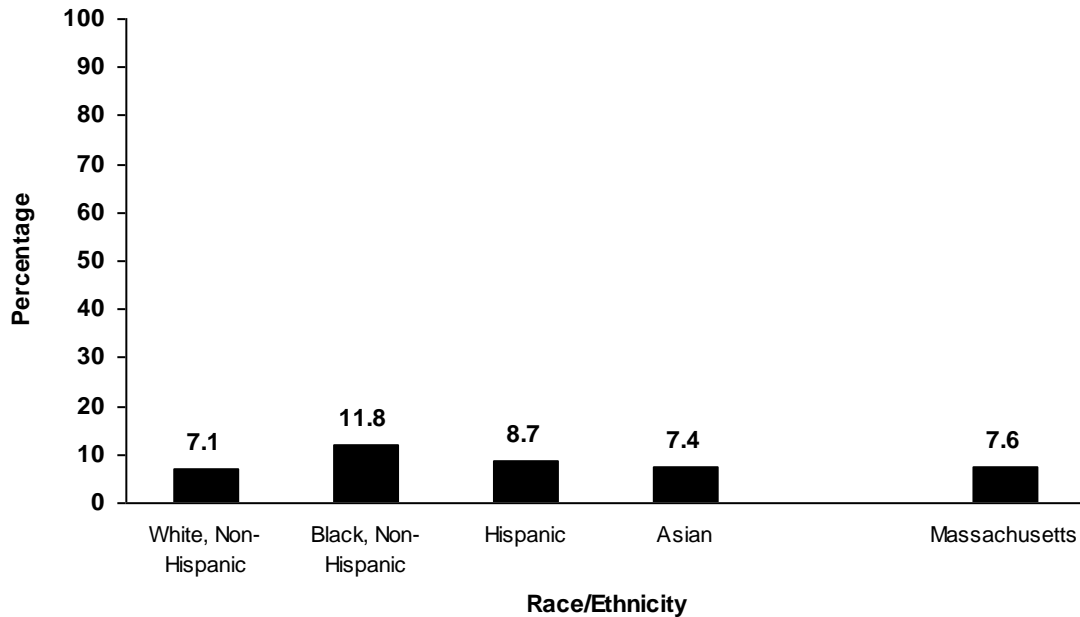


1. Data Source: Birth Certificates. 2. Infant mortality rate is the number of infant (=less than one year of age) deaths per 1,000 live births to women of a given race/ethnicity.

**Rate of Teen Births¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

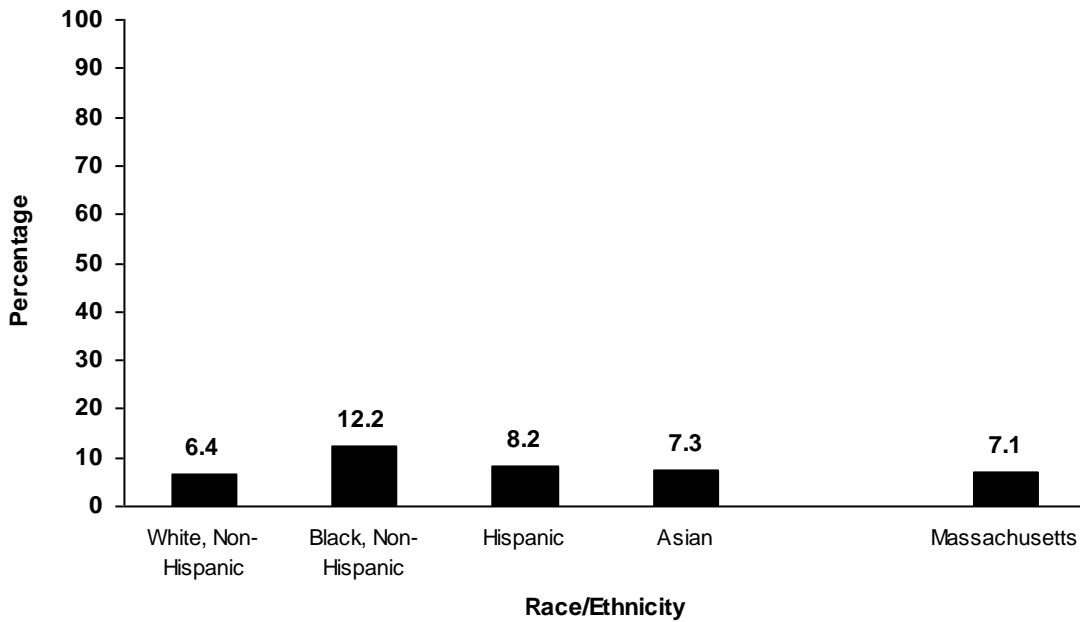


**Percentage of Premature Births^{3, 4}
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

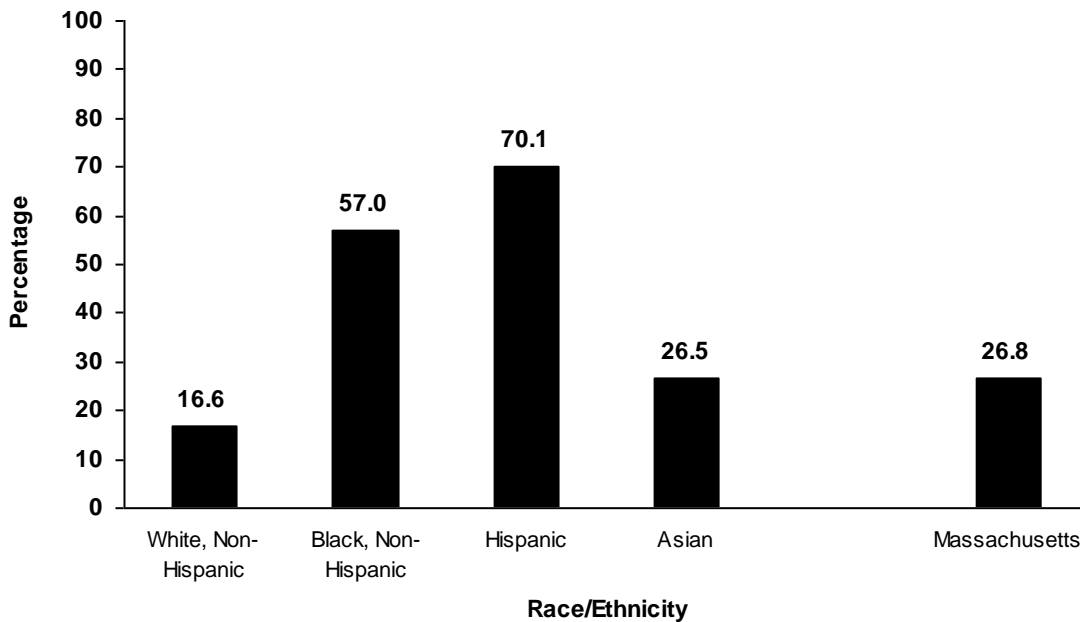


1. Teen birth rate is the number of births to women ages 15-19 per 1,000 women ages 15-19 years old, of a given race/ethnicity. Population source used: 1998 MISER population estimates, as consistent with rates published in *Massachusetts Births 1999*.
 2. Data Source: Birth Certificates. 3. Prematurity defined as less than 37 weeks gestation. 4. Denominator: births to all women of a given maternal race/ethnicity.

**Percentage of Low Birthweight^{1, 3} Births
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

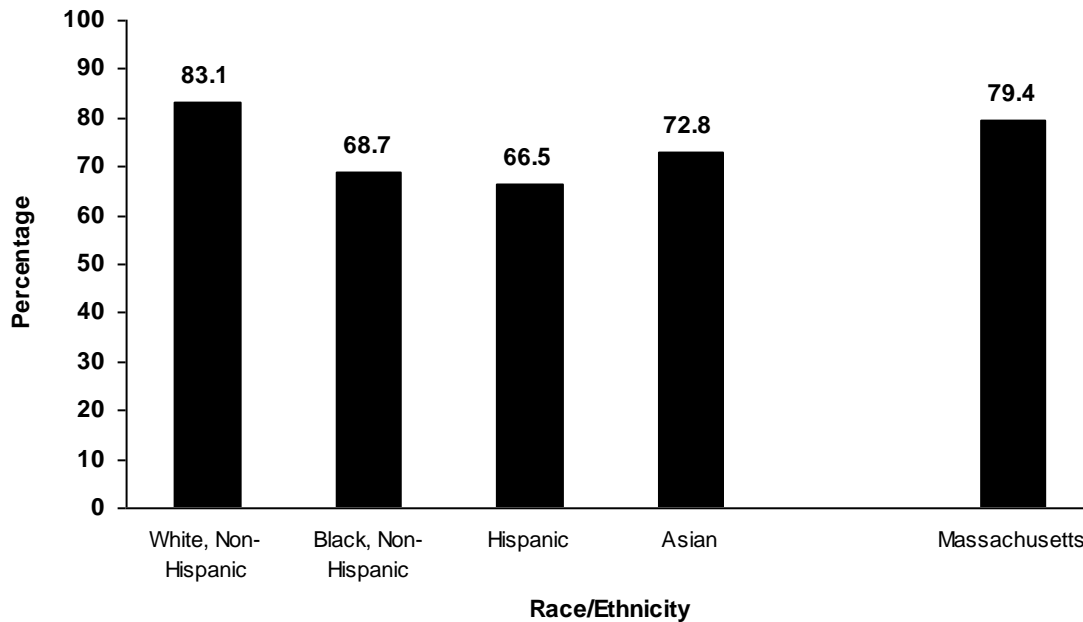


**Percentage of Births with Publicly-financed Prenatal Care^{3, 4}
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

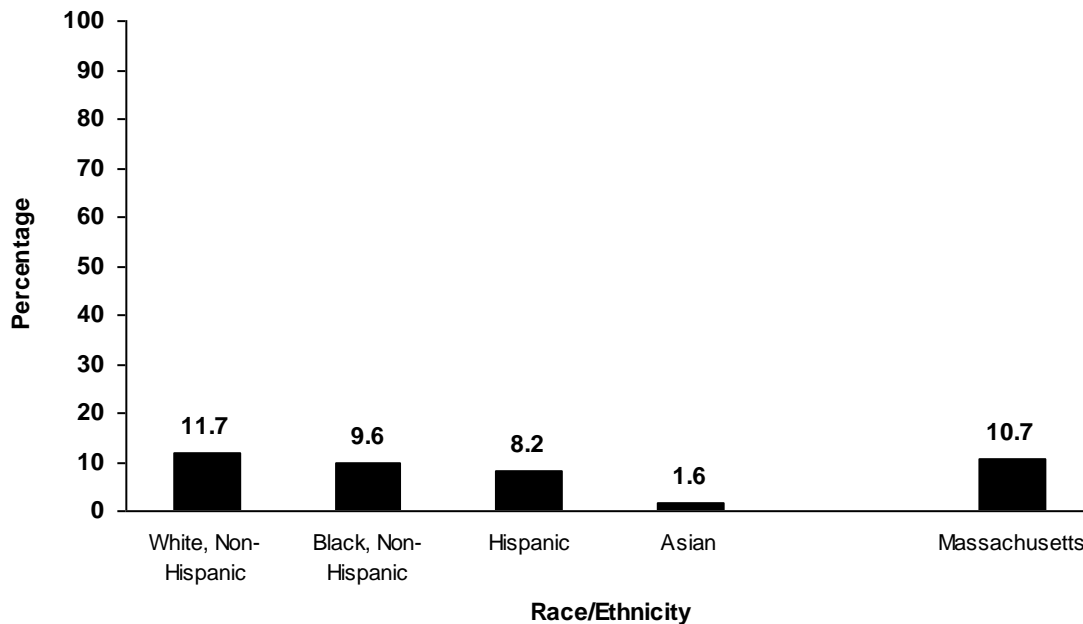


1. Low birthweight defined as less than 2,500 grams. 2. Data Source: Birth Certificates. 3. Denominator: births to all women of a given maternal race/ethnicity. 4. Publicly-financed programs include Medicaid, Medicare, Healthy Start, free care, and other government sources.

**Percentage of Births with Adequate Prenatal Care¹
by Race/Hispanic Ethnicity, Massachusetts: 1999^{2, 3}**

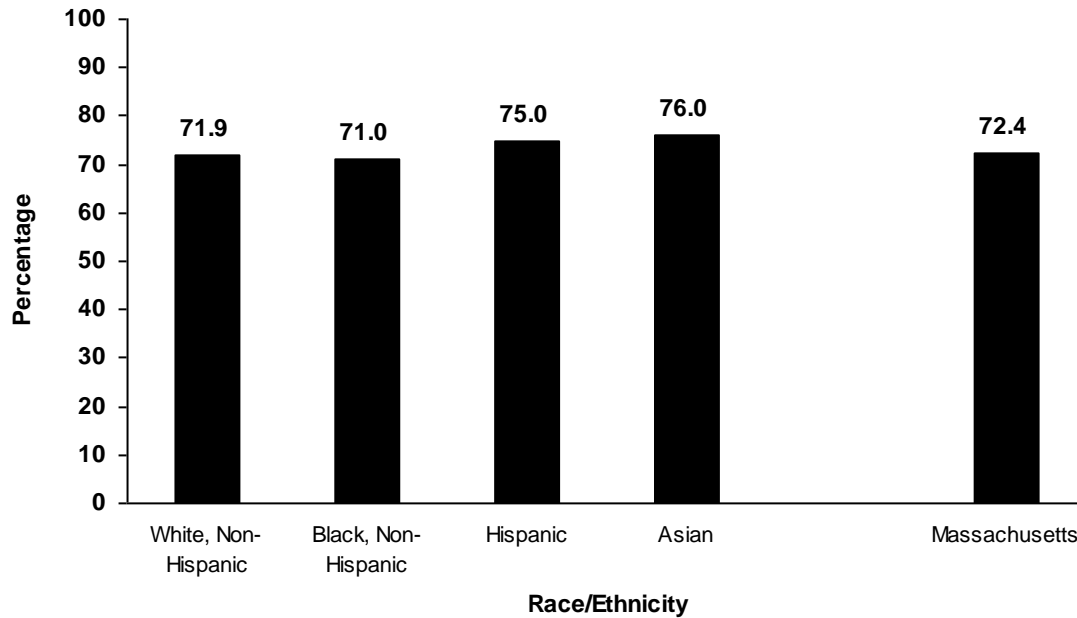


**Percentage of Births to Mothers who Smoked During Pregnancy⁴
by Race/Hispanic Ethnicity, Massachusetts: 1999^{2, 3}**

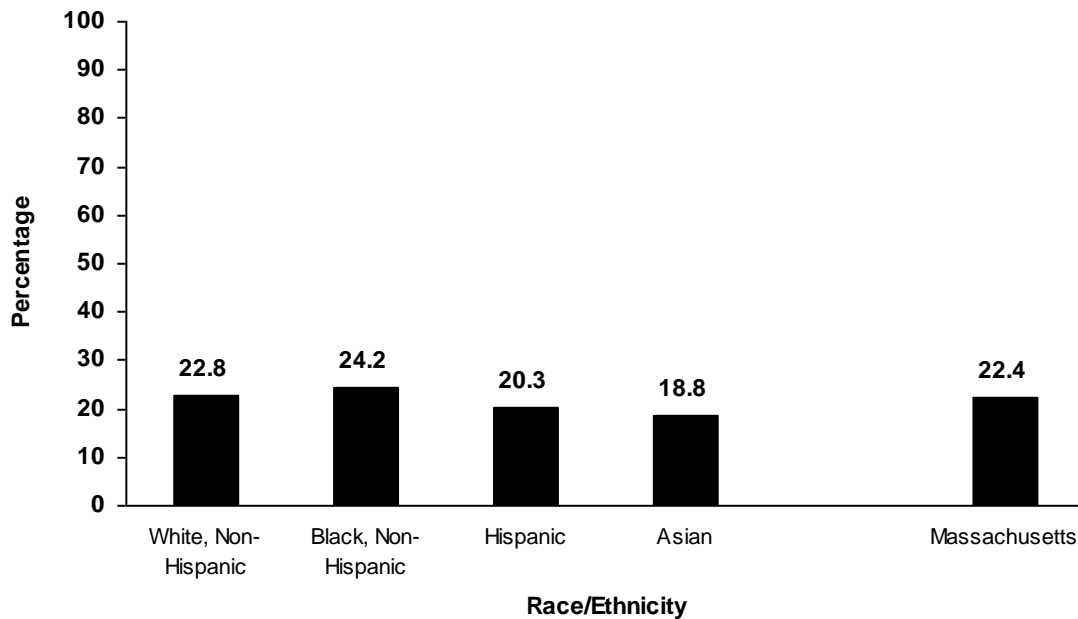


1. The Index of Adequacy of Prenatal Care (based on the Kessner Index) has five categories (adequate, intermediate, inadequate, no prenatal care, and unknown) and is based on the trimester in which prenatal care began and the number of prenatal care visits. This is a quantitative measure and does not indicate the quality of prenatal care received. 2. Data Source: Birth Certificates. 3. Denominator: births to all women of a given maternal race/ethnicity. 4. This information is reported by mothers at the time the birth certificate is completed.

**Percentage of Births to Mothers Breastfeeding¹
by Race/Hispanic Ethnicity, Massachusetts: 1999^{2, 3}**



**Percentage of Births to Mothers Giving Birth by Cesarean Section
by Race/Hispanic Ethnicity, Massachusetts: 1999^{2, 3}**



1. Mother reported breastfeeding or intending to breastfeed at time of birth. 2. Data Source: Birth Certificates. 3. Denominator: births to all women of a given maternal race/ethnicity.

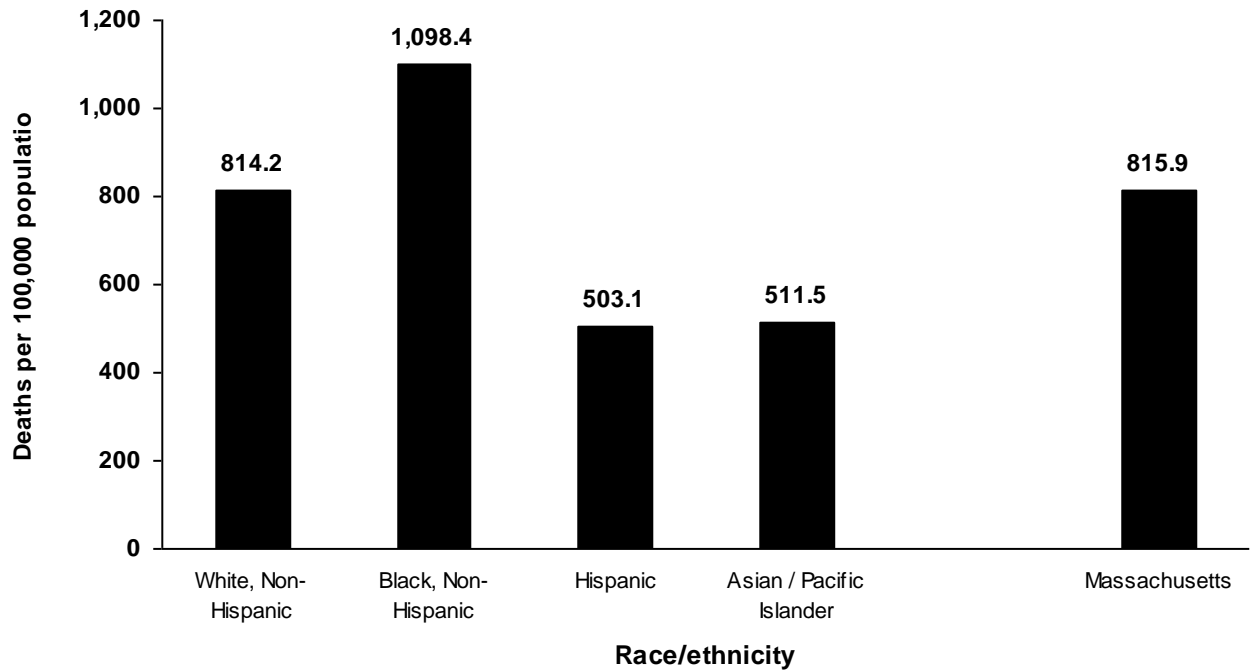
Deaths

Massachusetts Deaths: 1999

A note about mortality data:

Mortality data are generated from Death Certificates collected by the Registry of Vital Records and Statistics. The underlying cause of death is determined by standardized algorithm generated by the National Center for Health Statistics and used throughout the United States. Race and Hispanic ancestry are based on responses to two questions: one to identify race and the other to ascertain whether the decedent was of Hispanic ancestry. Race/Hispanic ethnicity categories presented here are mutually exclusive; persons of Hispanic ethnicity are not included in other race categories. Information from the next-of-kin, the funeral director, or other sources at the time of the completion of the death certificate is used to answer these questions. Data are for Massachusetts resident deaths. For further information, contact the Bureau of Health Statistics, Research and Evaluation, Division of Research and Epidemiology (617-624-5640).

**Age-Adjusted Mortality Rates¹ by
Race/Hispanic Ethnicity², Massachusetts: 1999³**



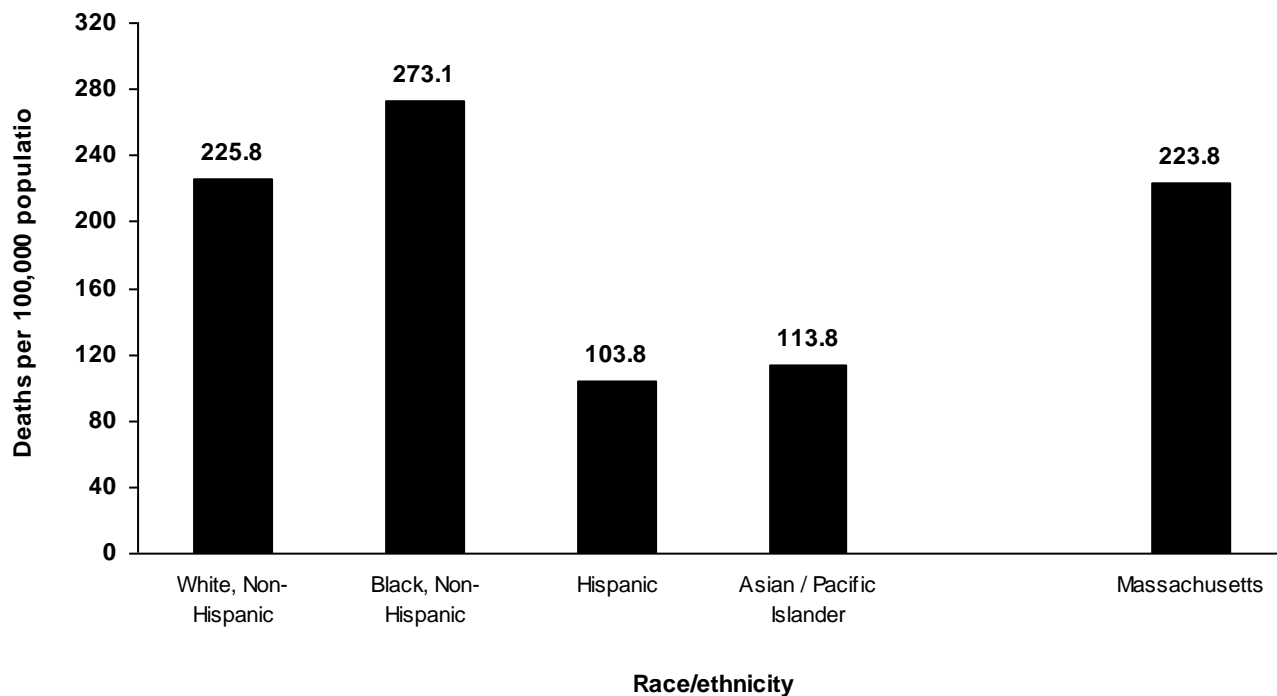
1. All rates are age-adjusted per 100,000 residents using the 2000 U.S. standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 3. Data Source: Death Certificates.

**Ranking¹ of Leading Causes² of Death
by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

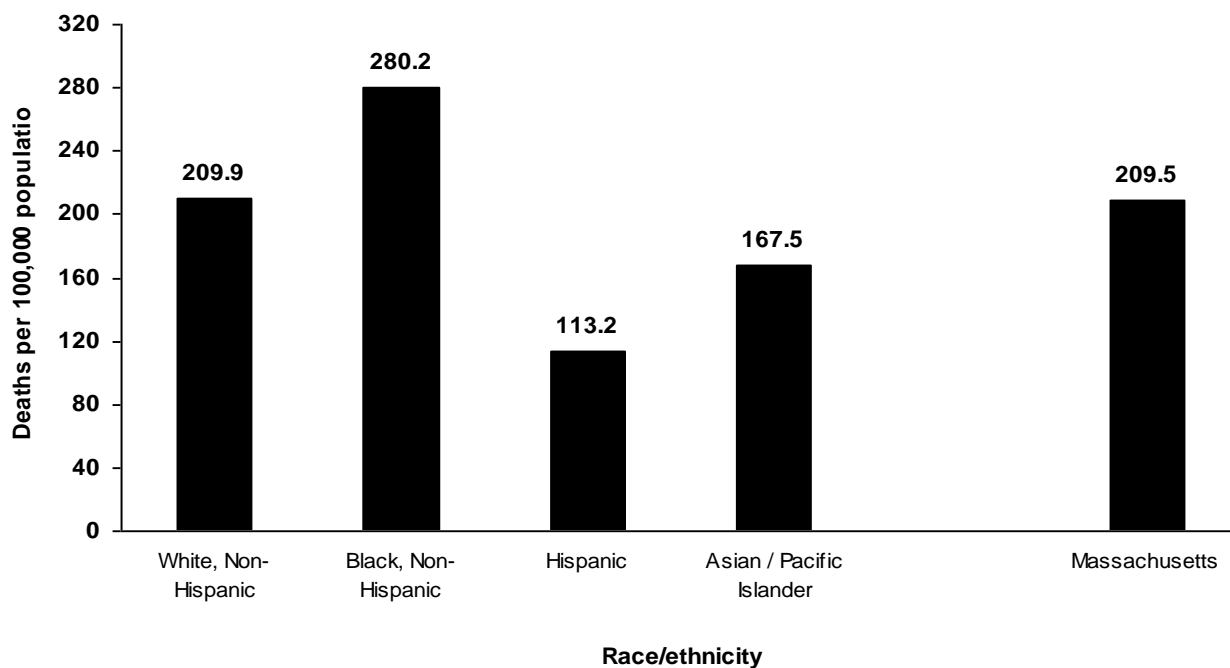
Rank	White Non-Hispanic (n=52,282)	Black Non-Hispanic (n=2,018)	Asian/Pacific Islander (n=449)	Hispanic (n=975)	Total (n=55,763)
1	Heart Disease	Cancer	Cancer	Cancer	Heart Disease
2	Cancer	Heart Disease	Heart Disease	Heart Disease	Cancer
3	Stroke	Stroke	Stroke	HIV disease	Stroke
4	Chronic Lower Resp. Disease ⁵	Diabetes	Influenza and Pneumonia	Diabetes	Chronic Lower Resp. Disease ⁵
5	Influenza and Pneumonia	Nephritis	Diabetes	Stroke	Influenza and Pneumonia
6	Diabetes	Perinatal Conditions	Septicemia	Chronic Lower Resp. Disease ⁵	Diabetes
7	Alzheimer's Disease	HIV disease	Suicide	Injuries of undetermined intent	Alzheimer's Disease
8	Nephritis	Chronic Lower Resp. Disease ⁵	Nephritis	Homicide	Nephritis
9	Septicemia	Septicemia	Motor Vehicle-related injuries	Perinatal conditions	Septicemia
10	Unintentional non- transport injuries ⁶	Influenza and Pneumonia	Unintentional non- transport injuries ⁶	Motor Vehicle-related injuries	Unintentional non- transport injuries ⁶

1. Ranking based on number of deaths. "n" refers to the total number of deaths in 1999. 2. Underlying Cause of Death based on ICD-10. 3. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 4. Data Source: Death Certificates. 5. The title of this disease has changed between ICD-9 and ICD-10. Chronic Lower Respiratory Disease (ICD-10 title) corresponds to Chronic Obstructive Pulmonary Disease (COPD) (ICD-9 title). 6. Unintentional injuries such as falls, fires, and drownings that were not intended to occur. Motor vehicle-related injuries and other transportation-related injuries are not included in these numbers.

**Age-Adjusted Death Rates¹ for Heart Disease²
By Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

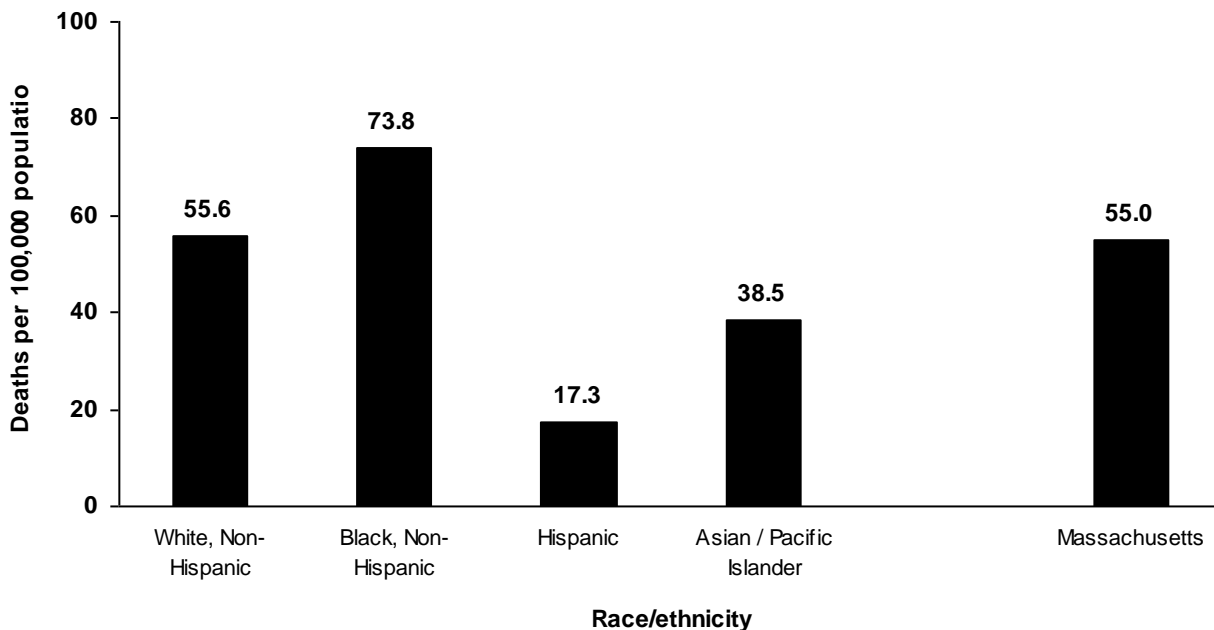


**Age-Adjusted Death Rates¹ for Cancer⁵
By Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

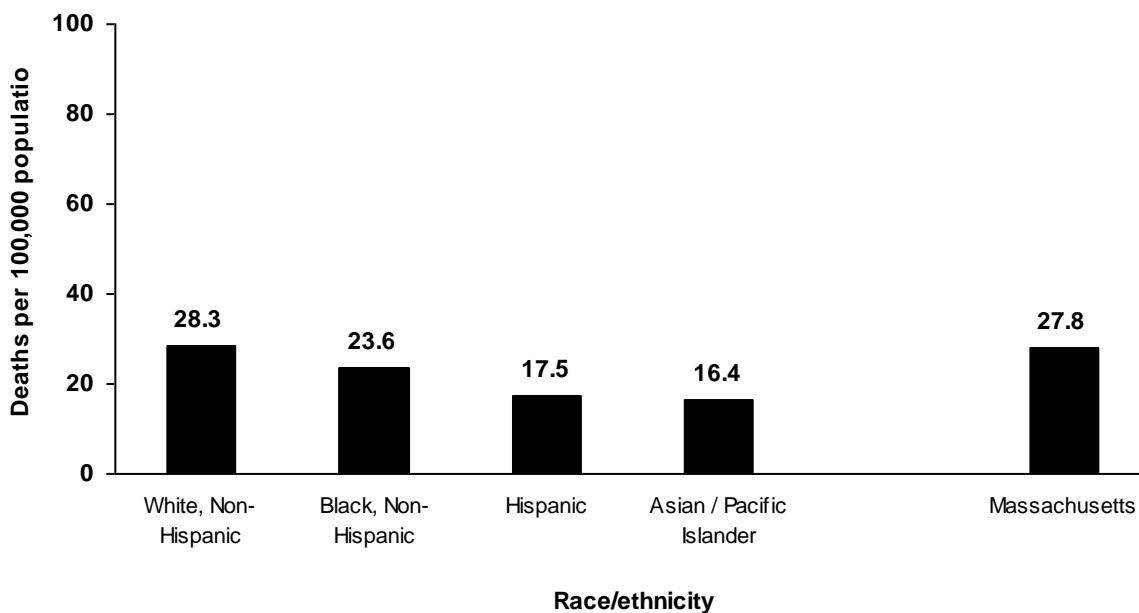


1. All rates are age-adjusted per 100,000 residents using the 2000 US standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. ICD-10 codes: I00-I09, I11, I13, I20-I51. 3. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 4. Data Source: Death Certificates. 5. ICD-10 codes: C00-C97.

**Age-Adjusted Death Rates¹ for Lung Cancer²
by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

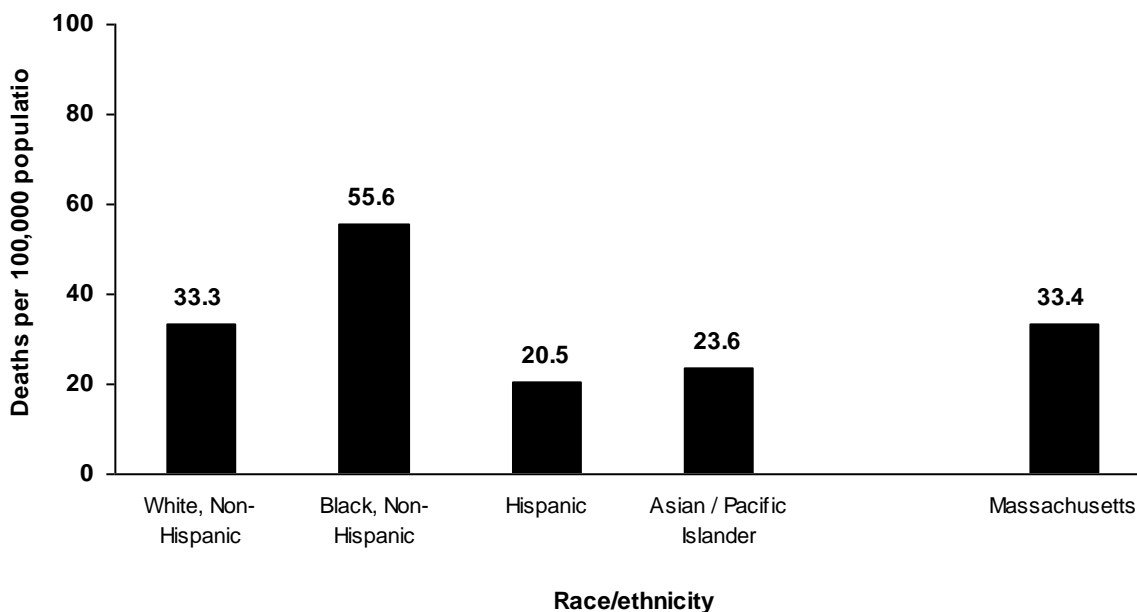


**Age-Adjusted Death Rates¹ for Breast Cancer⁵ (Female)
by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

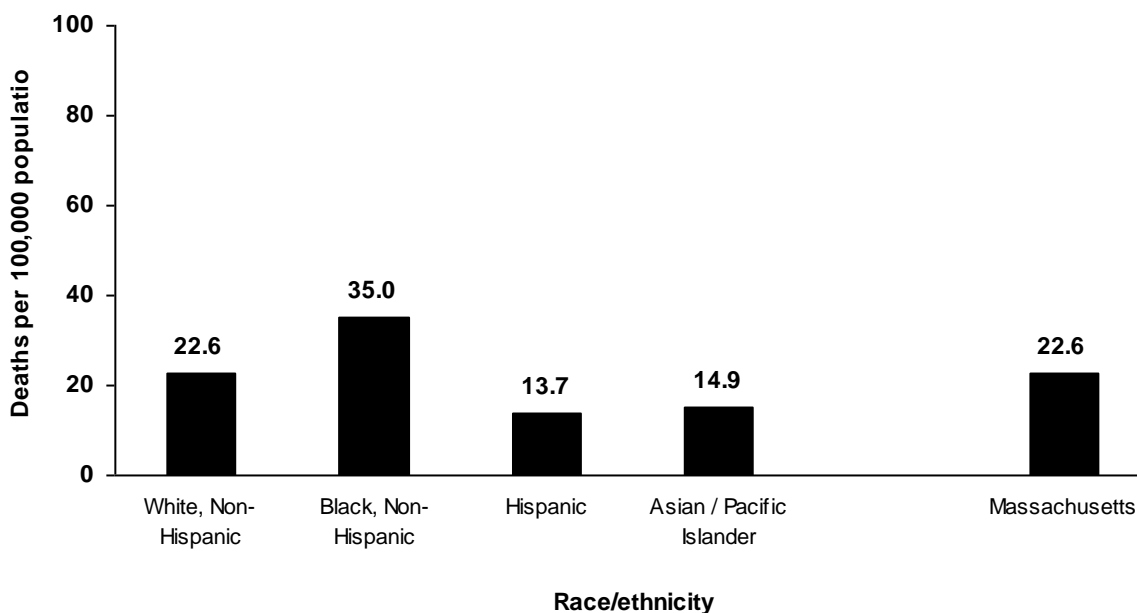


1. All rates are age-adjusted per 100,000 residents using the 2000 US standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. ICD-10 codes: C33, C34. 3. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 4. Data Source: Death Certificates. 5. ICD-10 codes: C50.

**Age-Adjusted Death Rates¹ for Prostate Cancer²
By Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

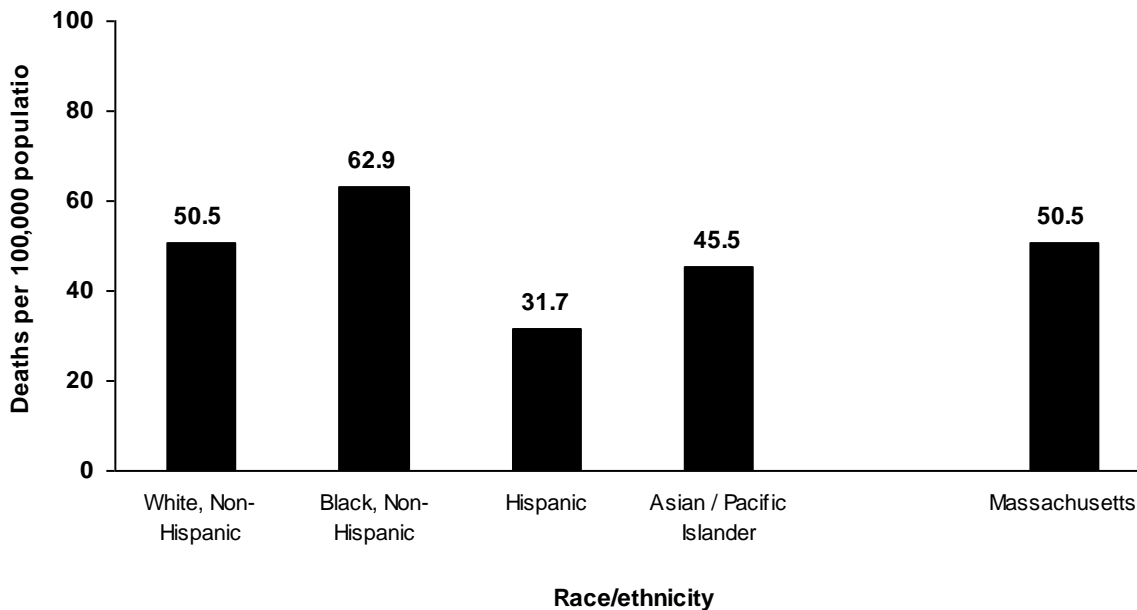


**Age-Adjusted Death Rates¹ for Colon Cancer⁵
By Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

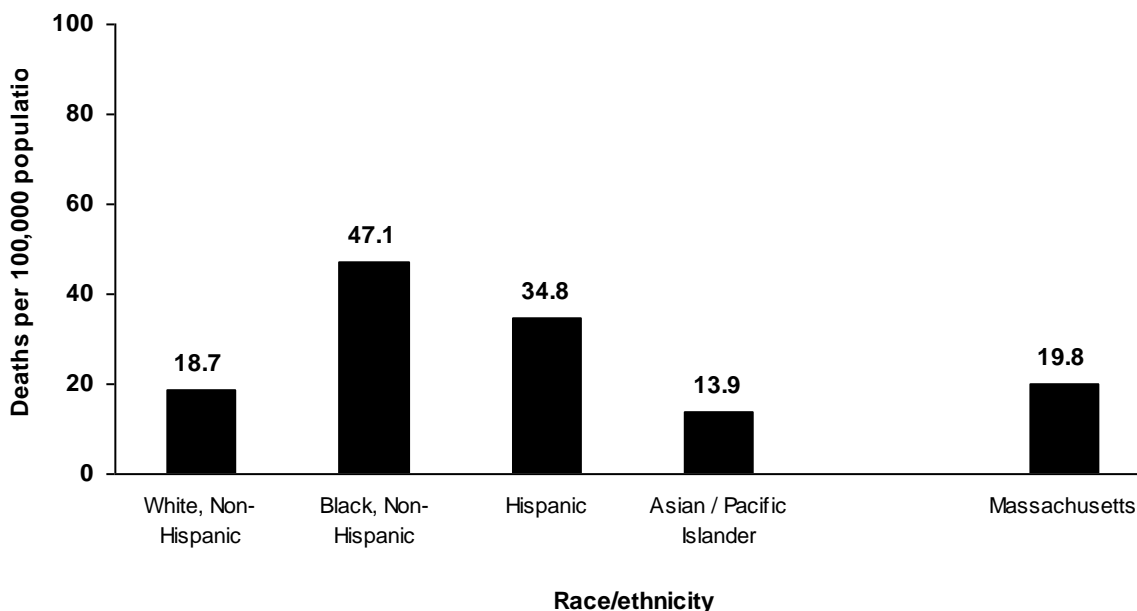


1. All rates are age-adjusted per 100,000 residents using the 2000 US standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. ICD-10 codes: C61. 3. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 4. Data Source: Death Certificates. 5. ICD-10 codes: C18-C21.

**Age-Adjusted Death Rates¹ for Stroke²
By Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

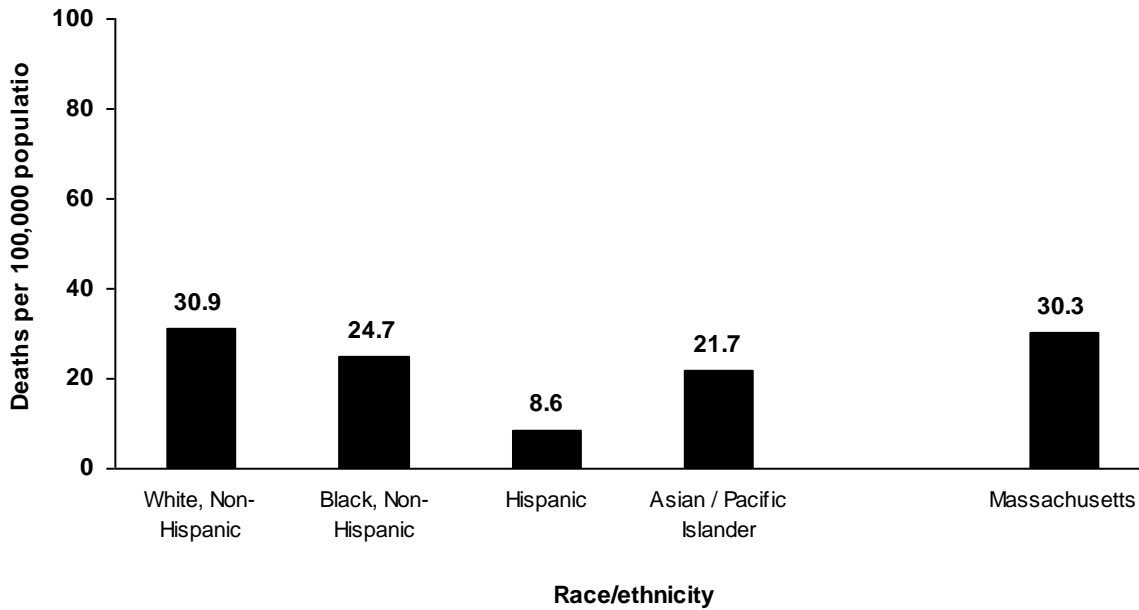


**Age-Adjusted Death Rates¹ for Diabetes⁵
By Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

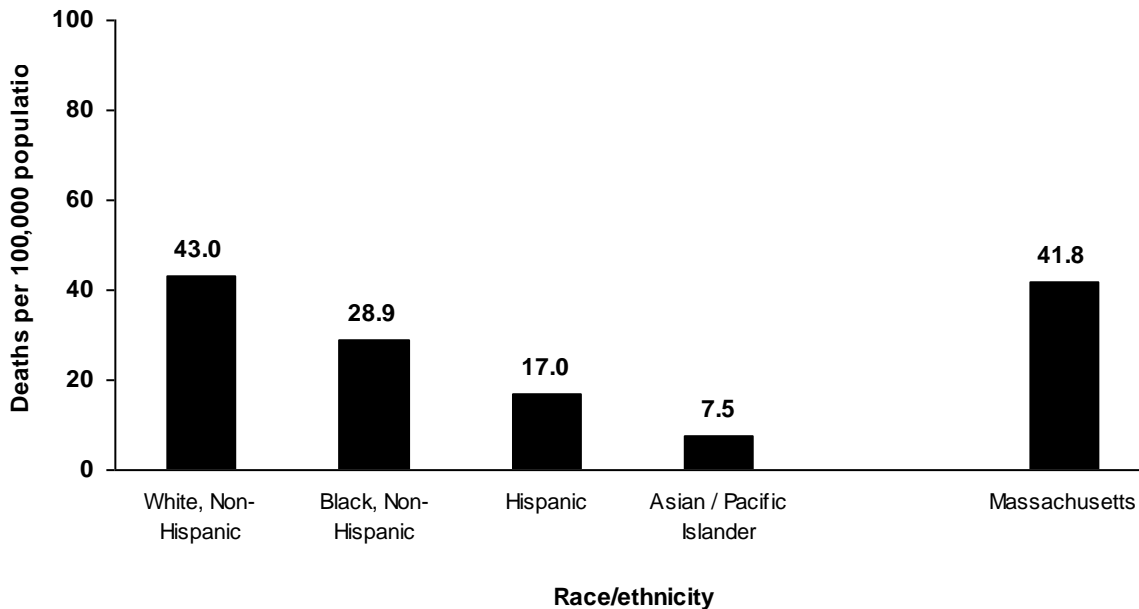


1. All rates are age-adjusted per 100,000 residents using the 2000 US standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. ICD-10 codes: I60-I69. 3. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 4. Data Source: Death Certificates. 5. ICD-10 codes: E10-E14.

Age-Adjusted Death Rates¹ for Influenza and Pneumonia² by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴

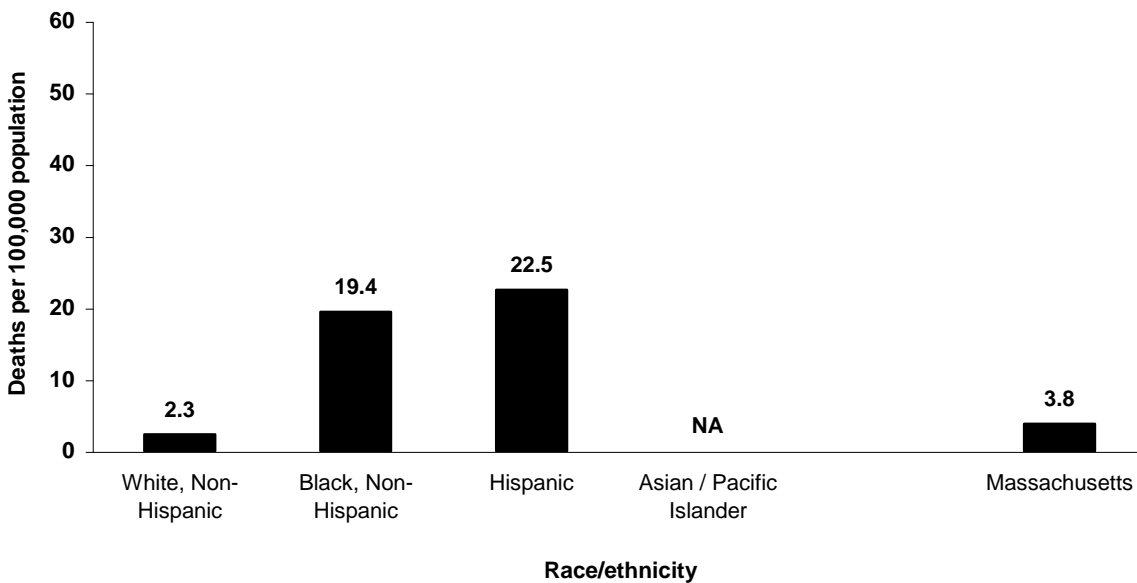


Age-Adjusted Death Rates¹ for Chronic Lower Respiratory Disease⁵ By Race/Hispanic Ethnicity³, Massachusetts: 1999⁴

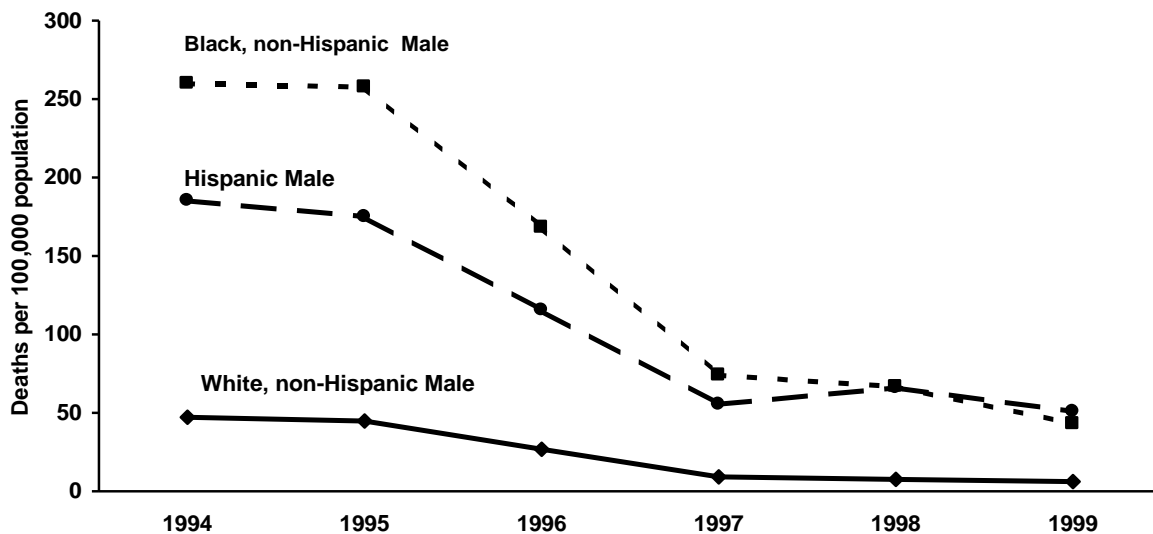


1. All rates are age-adjusted per 100,000 residents using the 2000 US standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. ICD-10 codes: J10-J18. 3. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 4. Data Source: Death Certificates. 5. ICD-10 codes: J40-J47.

Age-Adjusted Death Rates¹ for AIDS/HIV-Related Diseases² by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴



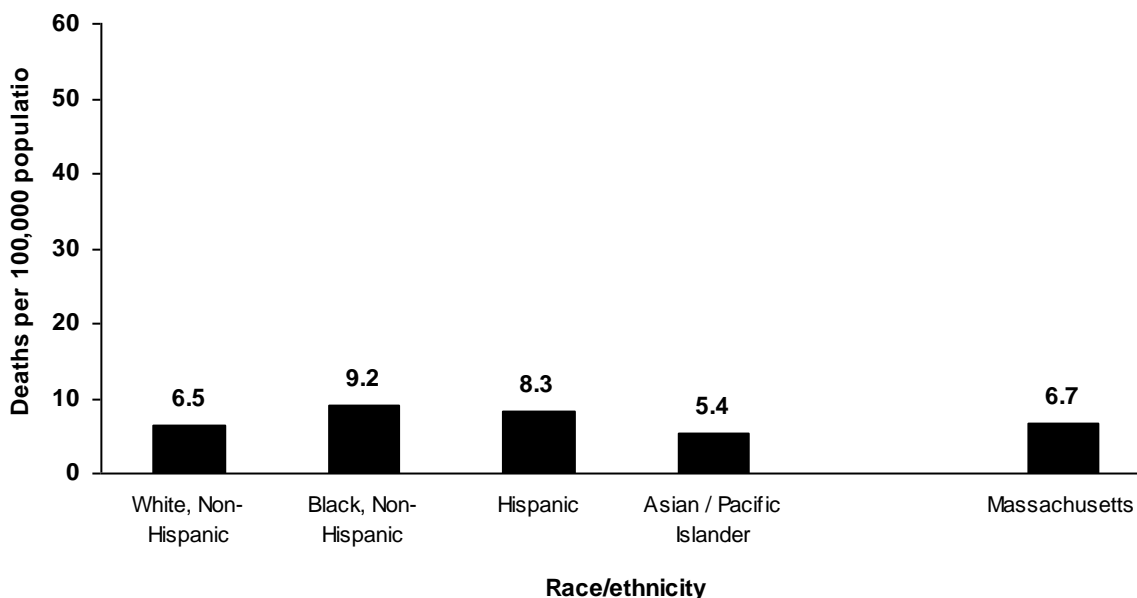
Change in AIDS/HIV-Related Death Rates^{1, 5} for Men Ages 25-44 by Race/Hispanic Ethnicity³, Massachusetts: 1994-1999⁴



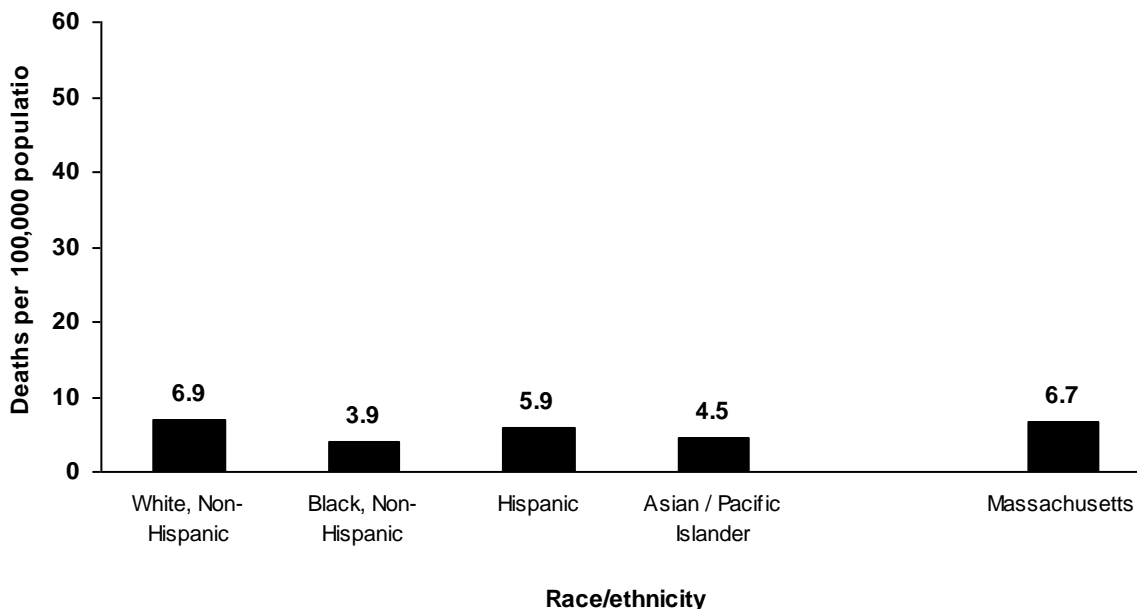
1. All rates are age-adjusted per 100,000 residents using the 2000 US standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. For 1994-1998, ICD-9 codes: 042-044; for 1999, ICD-10 codes: B20-B24. 3. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 4. Data source: Death Certificates. 5. Rates for 1994-1998 are "comparability modified rates", or rates that have been adjusted using the preliminary comparability ratios (CR) provided by the NCHS (June 2001) in order to make them comparable to the 1999 rate. Rates for 1994-1996 use 1996 based CR; rates for 1997-1998 use revised 1998 based CR. See Technical Notes for further explanation of comparability modified rates.

Note: Percentages based on fewer than five events are excluded.

**Age-Adjusted Death Rates¹ for Motor Vehicle-related Injuries²
by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

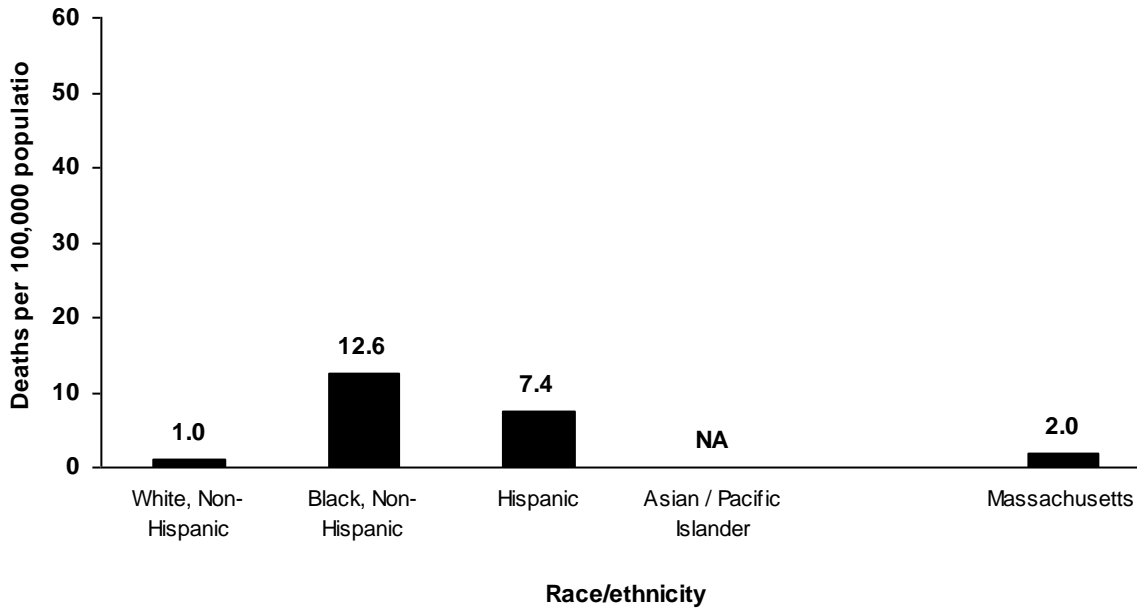


**Age-Adjusted Death Rates¹ for Suicide⁵
by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**

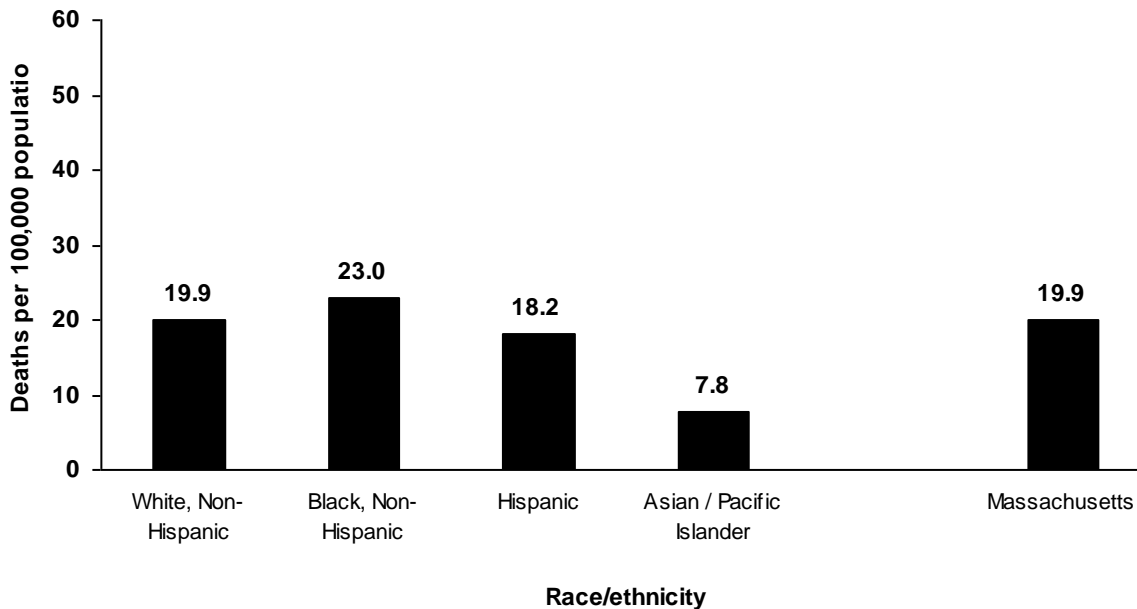


1. All rates are age-adjusted per 100,000 residents using the 2000 US standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. Motor vehicle deaths to occupants, pedestrians, motorcyclists and bicyclists, ICD-10 codes: V02-V04, V09.9, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2. 3. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 4. Data Source: Death Certificates. 5. ICD-10 codes: X60-X84, Y87.0.

**Age-Adjusted Death Rates¹ for Homicide²
by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**



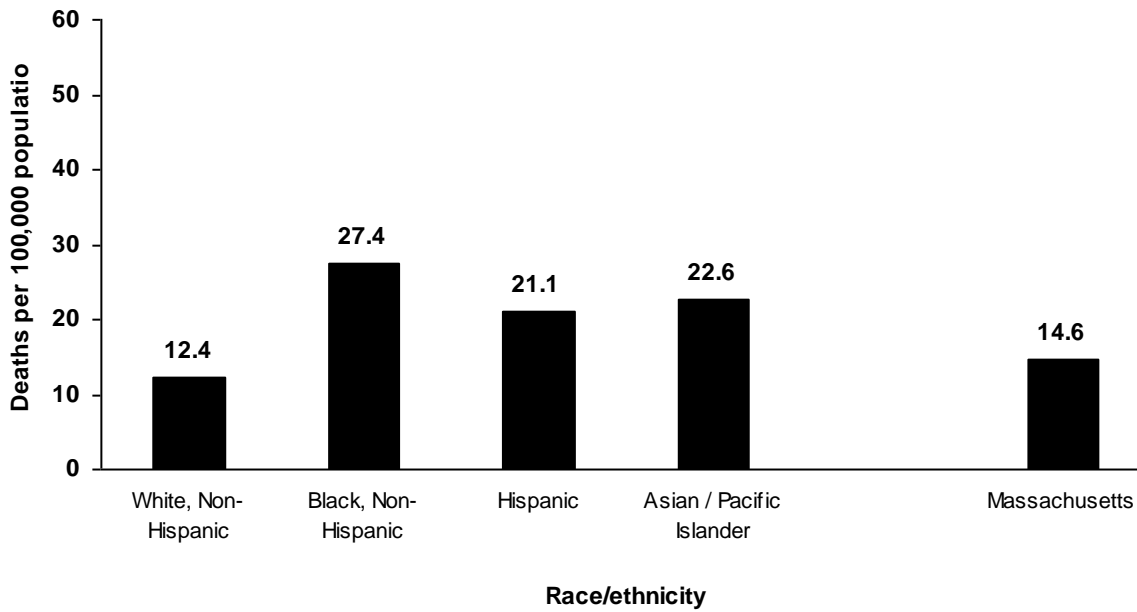
**Age-Adjusted Death Rates¹ for Other Injuries⁵
by Race/Hispanic Ethnicity³, Massachusetts: 1999⁴**



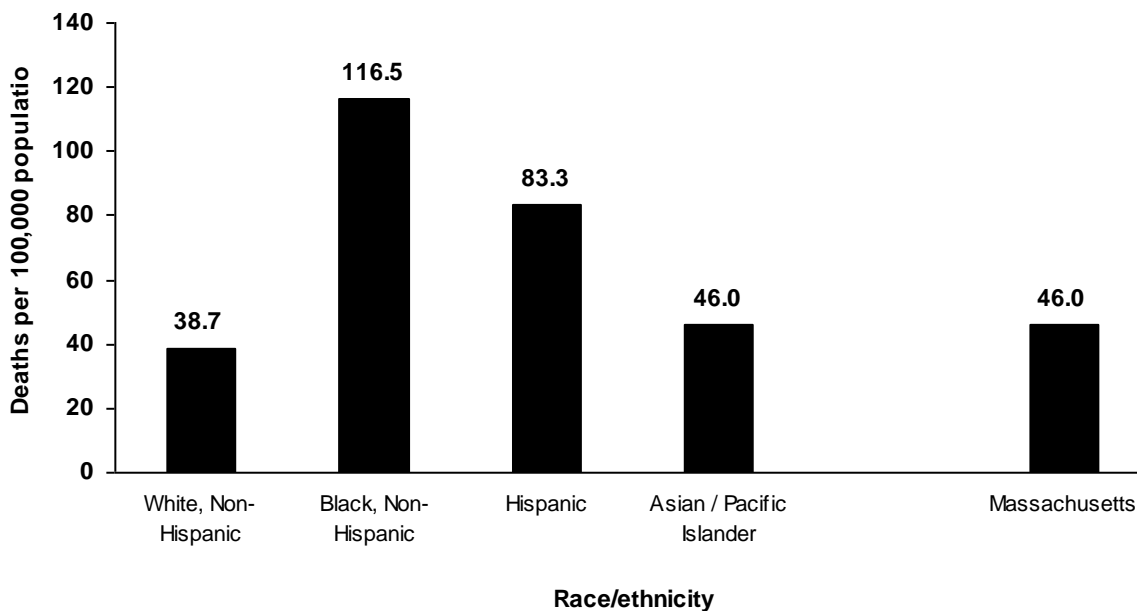
1. All rates are age-adjusted per 100,000 residents using the 2000 US standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates, consistent with publication of rates in *Massachusetts Deaths 1999*. 2. ICD-10 codes: X85-Y09, Y87.1. 3. Race and ethnicity data are presented as mutually exclusive categories; persons of Hispanic ethnicity are not included in a race category. 4. Data Source: Death Certificates. 5. Other injuries include deaths such as drownings, fires, falls and drug overdoses. This category includes deaths from unintentional injuries (ICD-10 codes V01-X59) and injuries of undetermined intent (deaths where investigation has not determined whether the injuries were accidental or purposely inflicted; ICD-10 codes Y10-Y34, Y87.2, Y89.9).

Note: NA= Percentages based on fewer than five events are excluded.

**Death Rates¹ for Residents Ages 1-14
by Race/Hispanic Ethnicity², Massachusetts: 1999³**

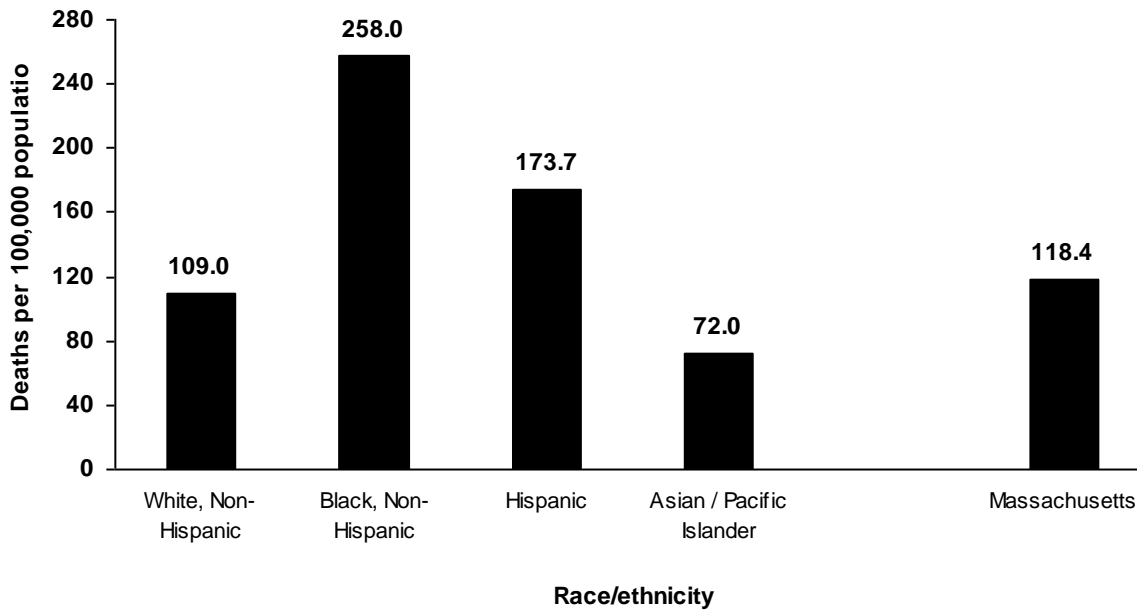


**Death Rates¹ for Residents Ages 15-24
by Race/Hispanic Ethnicity², Massachusetts: 1999³**

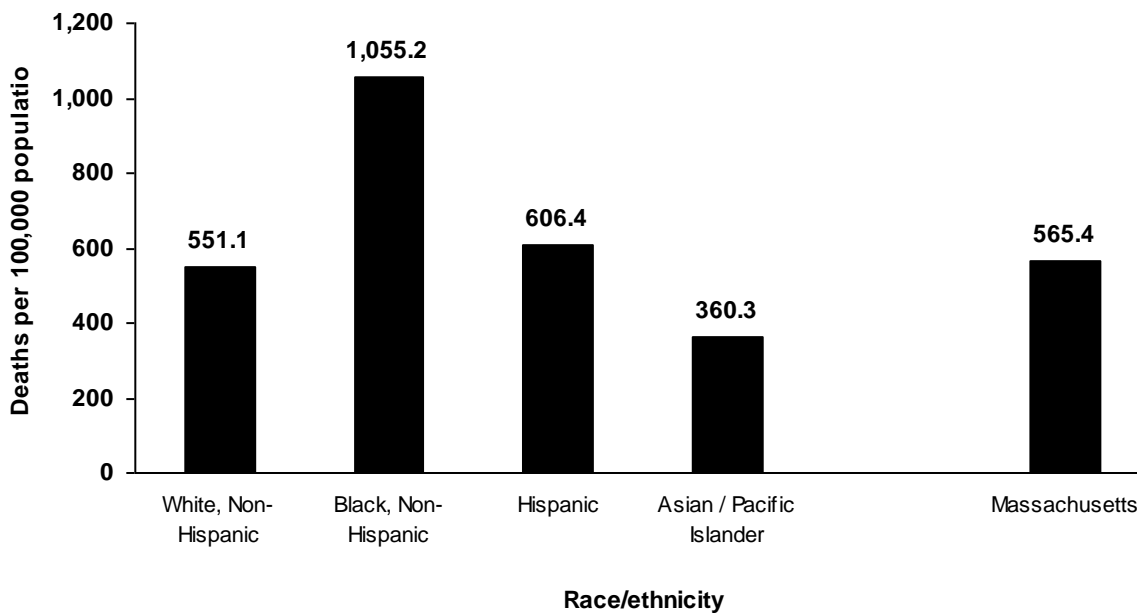


1. Number of deaths per 100,000 persons in each age group. 2. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 3. Data Source: Death Certificates.

**Death Rates¹ for Residents Ages 25-44
by Race/Hispanic Ethnicity², Massachusetts: 1999³**

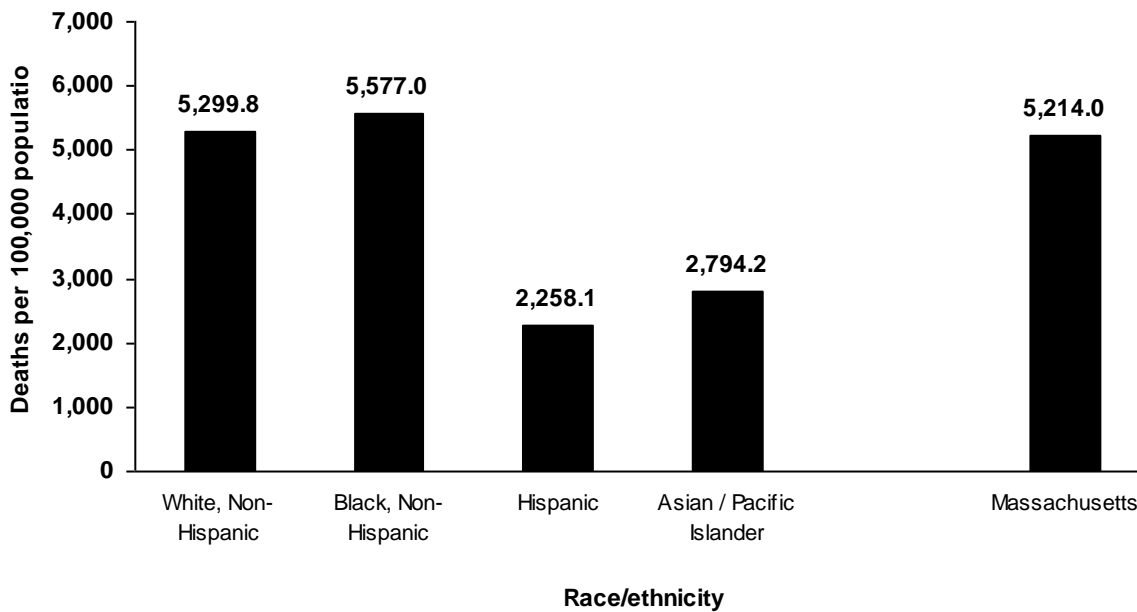


**Death Rates¹ for Residents Ages 45-64
by Race/Hispanic Ethnicity², Massachusetts: 1999³**



1. Number of deaths per 100,000 persons in each age group. 2. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 3. Data Source: Death Certificates.

**Death Rates¹ for Residents Ages 65 and Over
by Race/Hispanic Ethnicity², Massachusetts: 1999³**



1. Number of deaths per 100,000 persons in each age group. 2. Race and ethnicity data are presented as mutually exclusive categories: persons of Hispanic ethnicity are not included in a race category. 3. Data Source: Death Certificates.

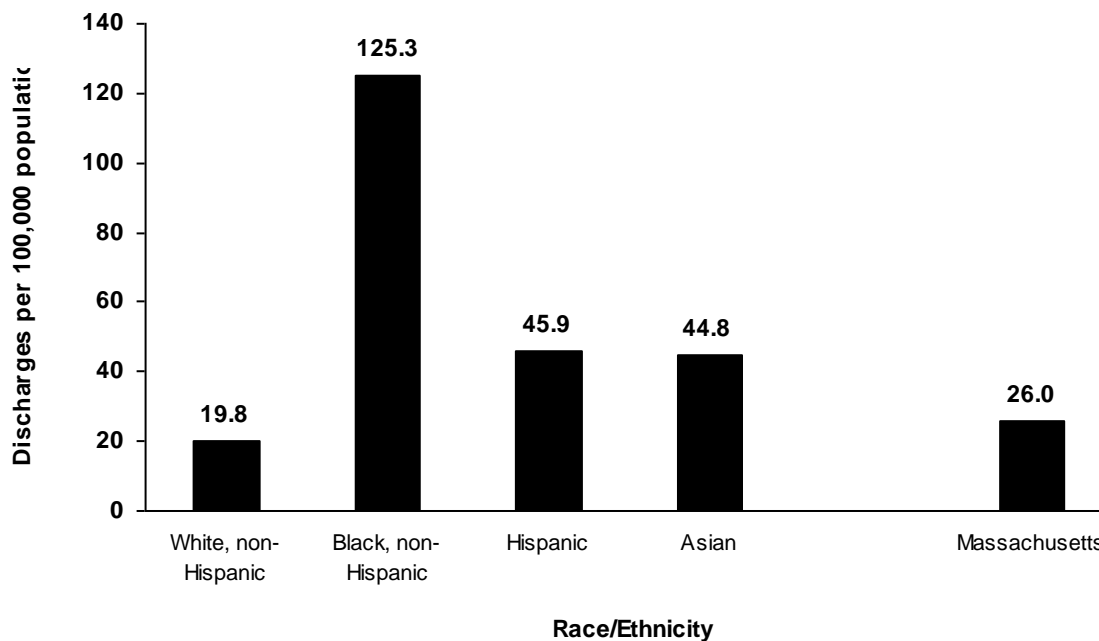
Hospital Discharge Data

Fiscal Year 1999

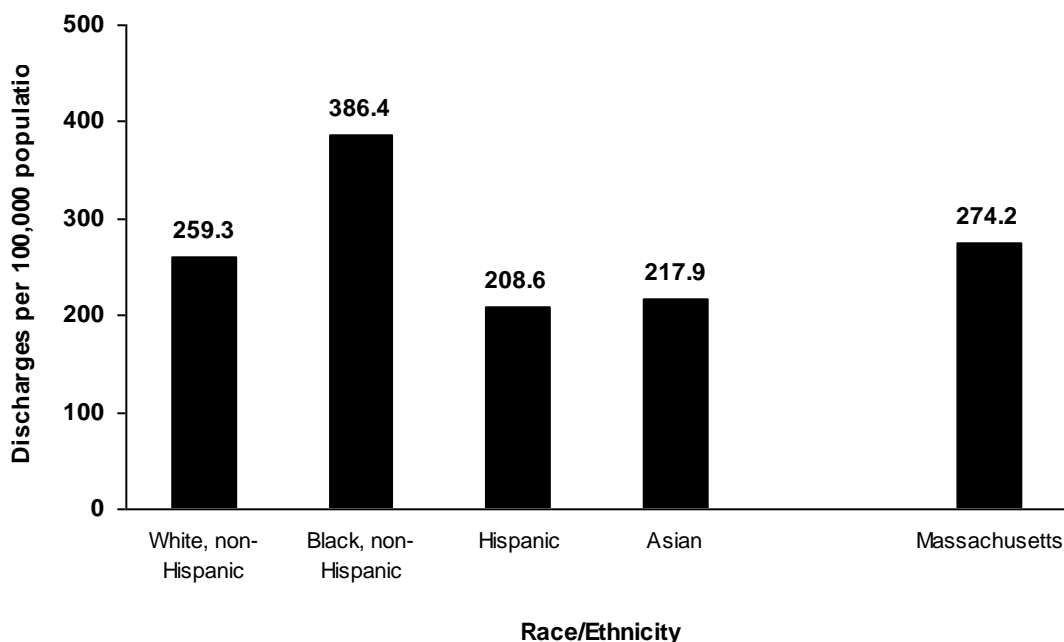
A note about Hospital Discharge Data:

Data are from the Division of Health Care Finance and Policy's (DHCF&P) Hospital Discharge Data (HDD) for fiscal year 1999. This file contains approximately 800,000 records for all discharges from short-stay acute care hospital facilities in Massachusetts (except several federal and state facilities). Race/Hispanic ethnicity is coded to one of six mutually exclusive categories in the Hospital Discharge Dataset: White, Black, Hispanic, Asian, American Indian, or Other. For further information, contact DHCF&P (617-988-3145).

**Age-Adjusted Rate¹ of Hospital Discharges for Hypertension²
by Race/Hispanic Ethnicity, Massachusetts: 1999³**

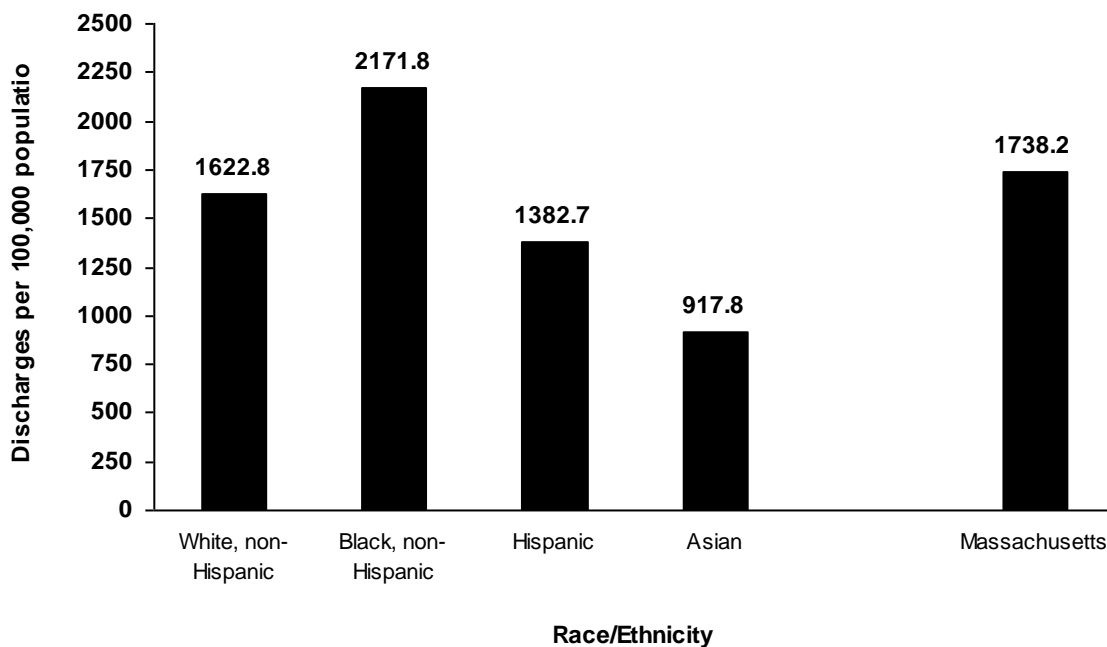


**Age-Adjusted Rate¹ of Hospital Discharges for Cerebrovascular Disease
(Stroke)⁴ by Race/Hispanic Ethnicity, Massachusetts: 1999³**

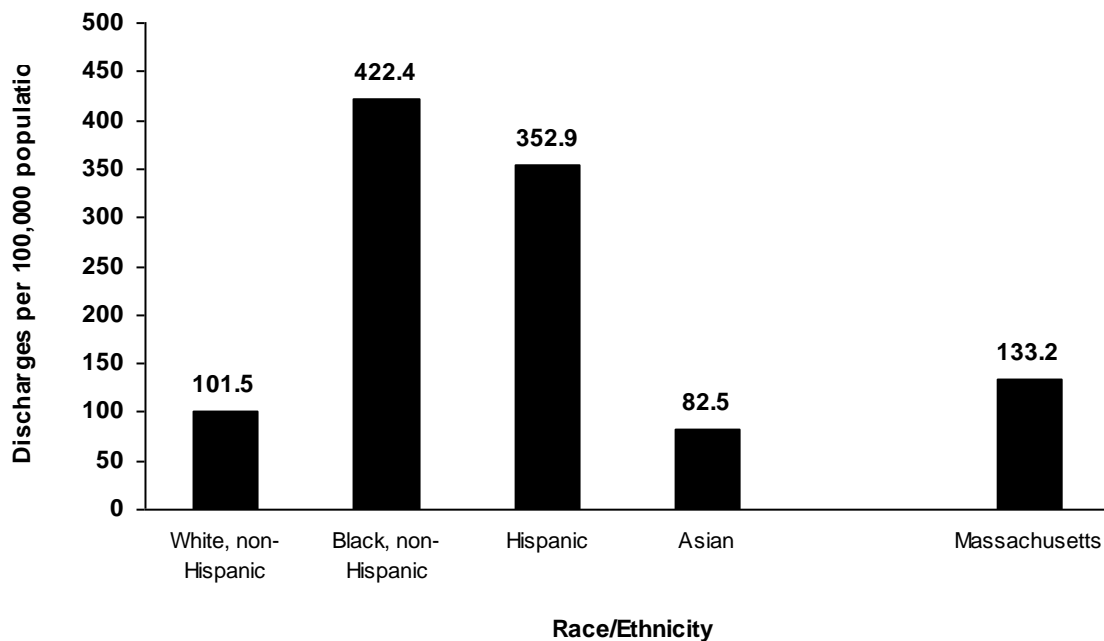


1. All rates are age-adjusted per 100,000 residents of a given race/Hispanic ethnicity, using the 2000 U.S. standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates. 2. ICD-9-CM codes 401, 403. 3. Hospital Discharge Data, Fiscal Year 1999. 4. ICD-9-CM codes 430-438.

**Age-Adjusted Rate¹ of Hospital Discharges for Major Cardiovascular Disease²
by Race/Hispanic Ethnicity, Massachusetts: 1999³**



**Age-Adjusted Rate¹ of Hospital Discharges for Asthma⁴
by Race/Hispanic Ethnicity, Massachusetts: 1999³**



1. All rates are age-adjusted per 100,000 residents of a given race/Hispanic ethnicity, using the 2000 U.S. standard population. See Technical Notes for further explanation of age-adjusted rates. Population source used in calculation of age-adjusted rates: 1998 MISER population estimates. 2. ICD-9-CM codes 390-448. 3. Hospital Discharge Data, Fiscal Year 1999. 4. ICD-9-CM code 493.

AIDS and STD Incidence

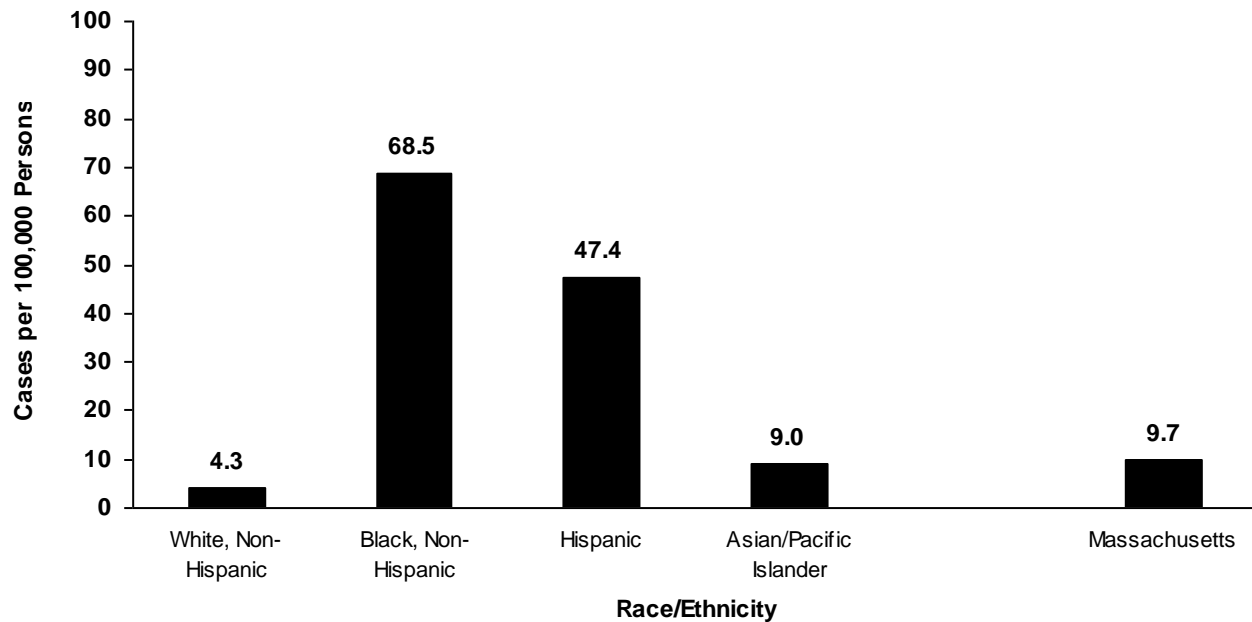
AIDS Incidence Data

AIDS Case Data are from the HIV/AIDS Surveillance Program at the MA Department of Public Health. AIDS has been a reportable condition in MA since 1983. All healthcare providers are required by law to report CDC-defined AIDS to the MA Department of Public Health HIV/AIDS Surveillance Program (MHASP) located at the State Laboratory Institute. Even though a greater proportion of actual AIDS cases are reported than many other communicable diseases, interpretation of AIDS case data is hampered by a small degree of non-reporting (10-15%). In addition, not all cases are reported at the time of diagnosis, creating a reporting lag leading to an undercounting of recent cases (prior six months). Data on race/ethnicity are abstracted primarily from medical records. For further information, contact the Bureau of Communicable Disease Control, HIV/AIDS Surveillance Program (617-983-6560).

STD Incidence Data

Sexually Transmitted Disease (STD) incidence data are from the Division of Sexually Transmitted Disease Prevention at the MA Department of Public Health, Bureau of Communicable Disease Control. For further information, contact the Division of STD Prevention at (617) 983-6940.

**AIDS Incidence Rates¹
by Race/Hispanic Ethnicity, Massachusetts: 2000²**

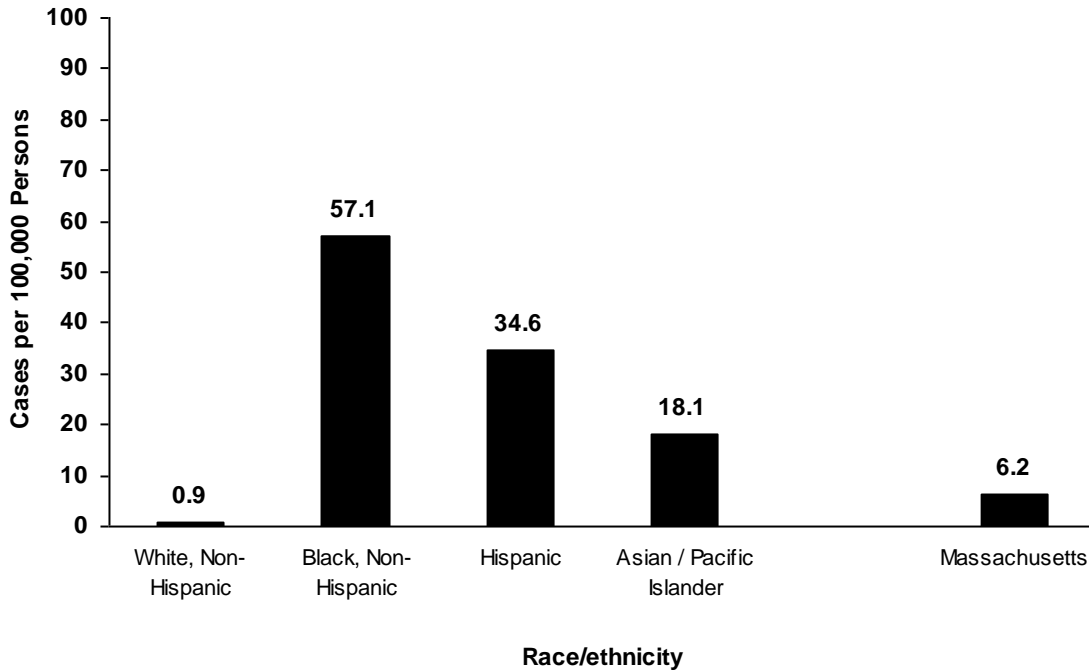


**Table of AIDS Incidence Rates¹
by Gender and Race/Hispanic Ethnicity, Massachusetts: 2000²**

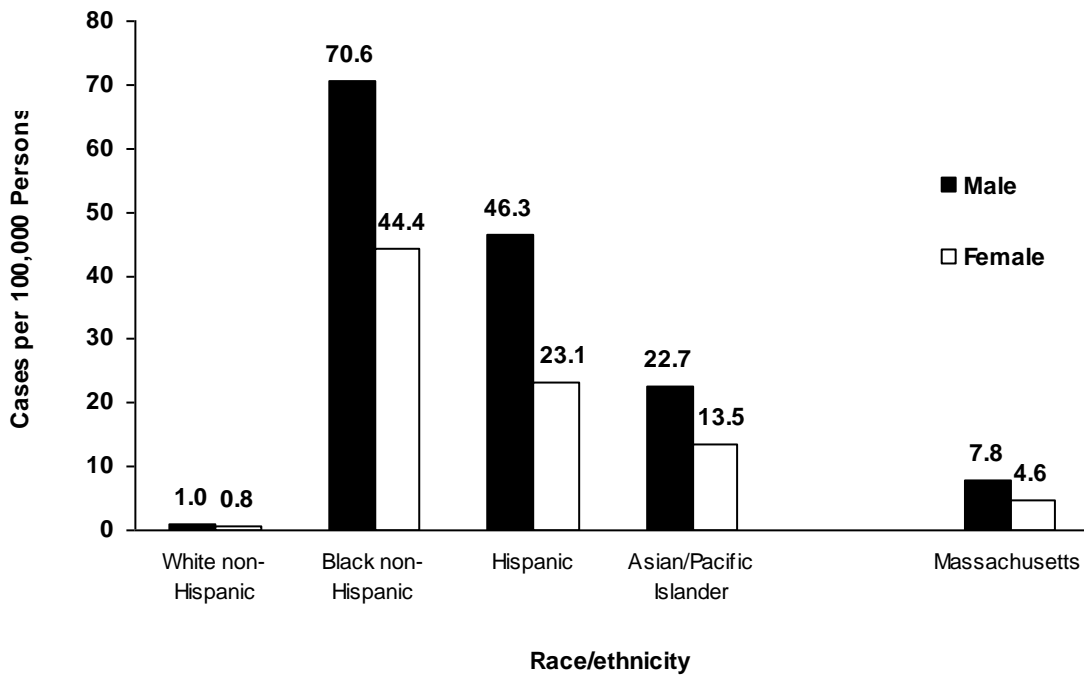
<i>Race/Ethnicity</i>	<i>Males</i>	<i>Females</i>	<i>Total</i>
White non-Hispanic	7.2	1.6	4.3
Black Non-Hispanic	83.1	54.8	68.5
Hispanic	69.8	25.3	47.4
Asian/Pacific Islander	17.0	-- ³	9.0
Massachusetts	14.4	5.2	9.7

1. Incidence rate defined as the number of new cases diagnosed during 2000 (and reported through July 1, 2001) per 100,000 persons of a given race/ethnicity and gender. Rates are calculated using 1998 MISER population estimates as denominators, as consistent with publication of 2000 rates by the MA Dept. of Public Health HIV/AIDS Surveillance Program. 2. Data source: Massachusetts Department of Public Health HIV/AIDS Surveillance Program. 3. Number of cases too small to calculate incidence rate.

Syphilis Incidence Rates¹ by Race/Hispanic Ethnicity, Massachusetts: 1999²

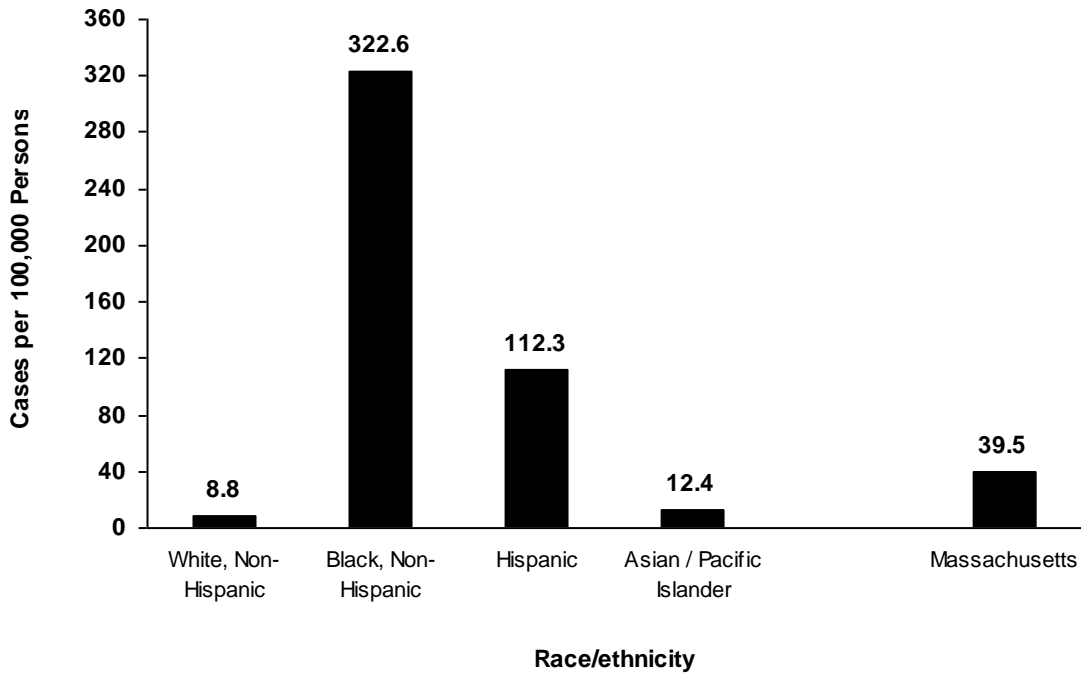


Syphilis Incidence Rates¹ by Race/Hispanic Ethnicity and Gender, Massachusetts: 1999²

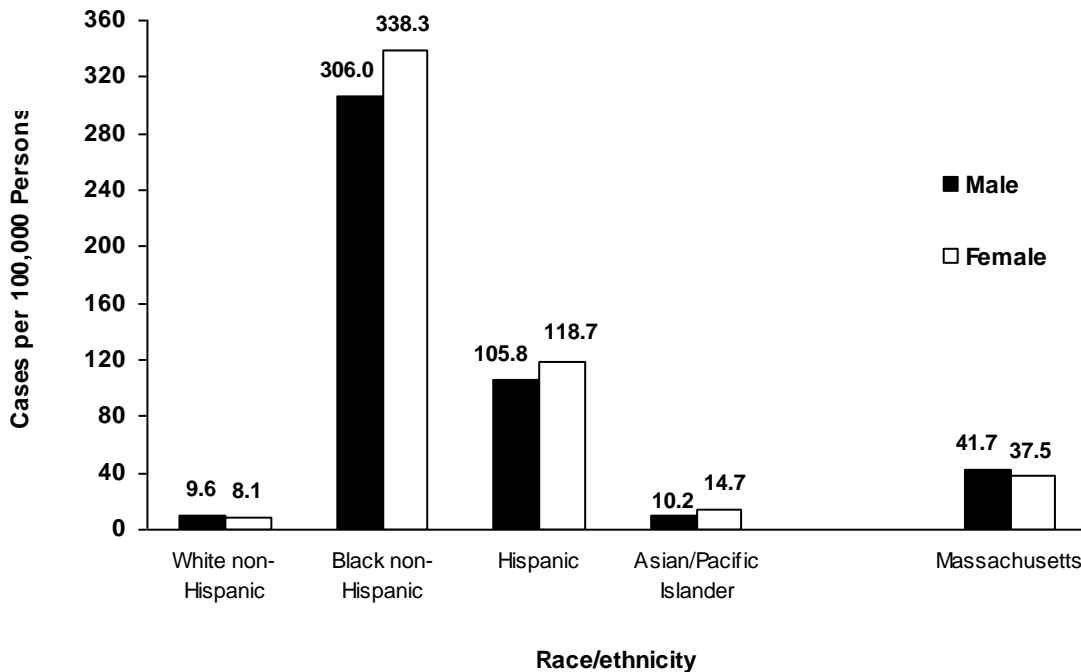


1. Incidence rate defined as the number of new cases diagnosed during 1999 per 100,000 persons of a given race/ethnicity and gender. Rates are calculated using 1998 MISER population estimates. 2. Data source: Massachusetts Department of Public Health, Division of STD Prevention.

**Gonorrhea Incidence Rates¹
by Race/Hispanic Ethnicity, Massachusetts: 1999²**

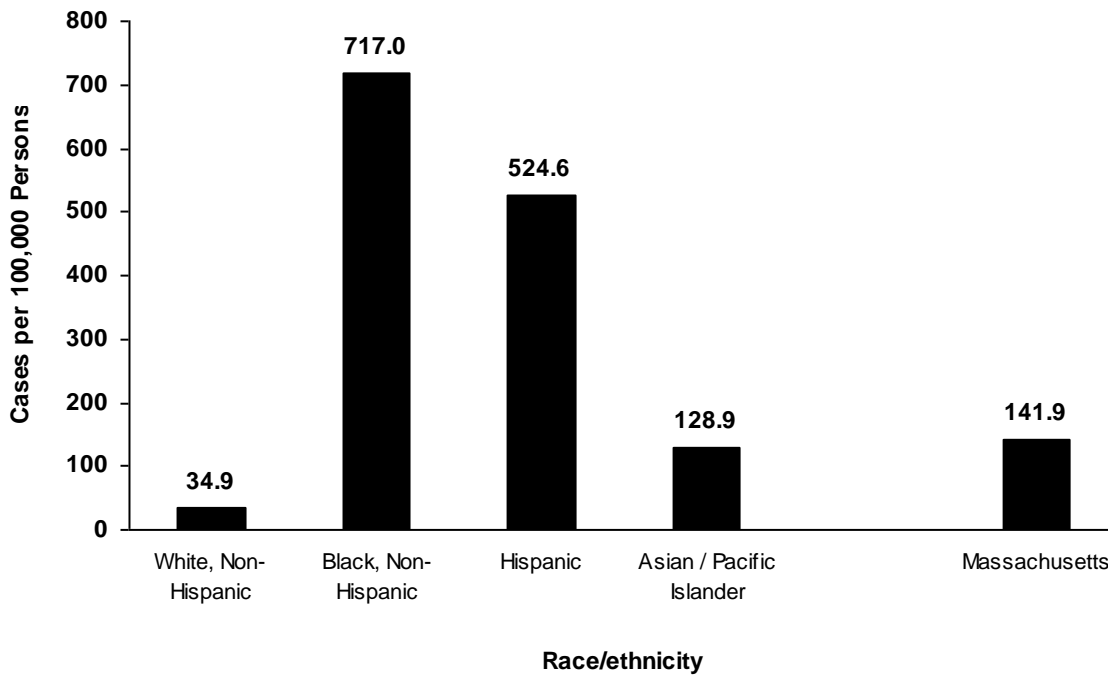


**Gonorrhea Incidence Rates¹
by Race/Hispanic Ethnicity and Gender, Massachusetts: 1999²**

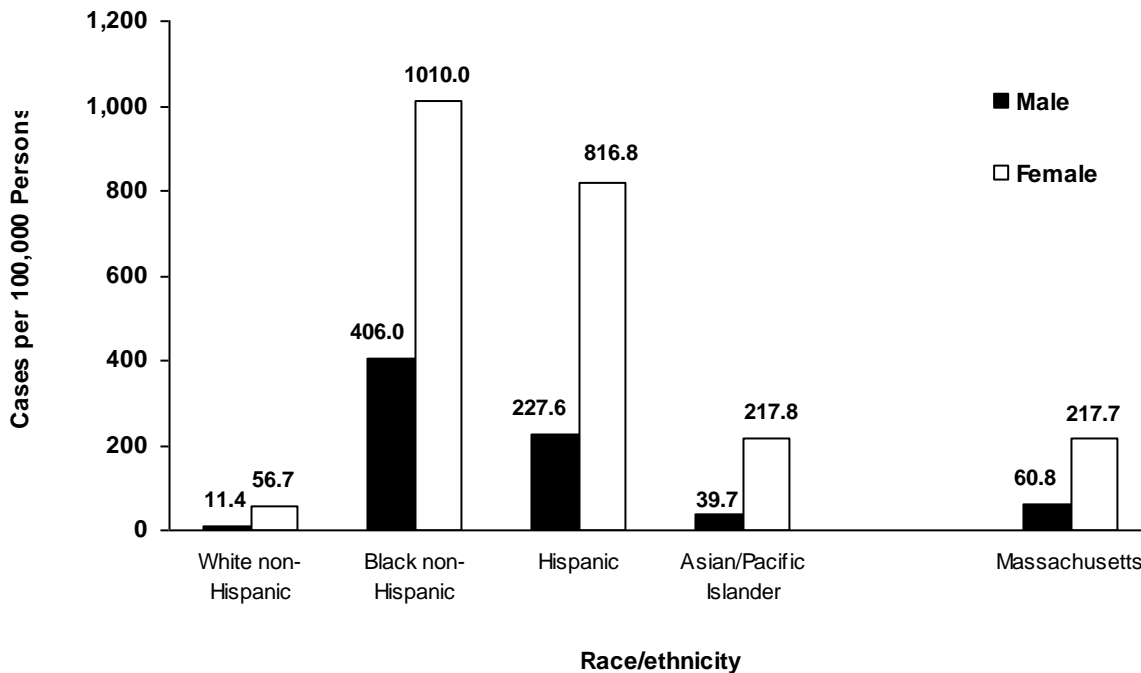


1. Incidence rate defined as the number of new cases diagnosed during 1999 per 100,000 persons of a given race/ethnicity and gender. Rates are calculated using 1998 MISCER population estimates. 2. Data source: Massachusetts Department of Public Health, Division of STD Prevention.

Chlamydia Incidence Rates¹ by Race/Hispanic Ethnicity, Massachusetts: 1999²



Chlamydia Incidence Rates¹ by Race/Hispanic Ethnicity and Gender, Massachusetts: 1999²



1. Incidence rate defined as the number of new cases diagnosed during 1999 per 100,000 persons of a given race/ethnicity and gender. Rates are calculated using 1998 MISER population estimates. 2. Data source: Massachusetts Department of Public Health, Division of STD Prevention.

Risk Ratios

A note about Risk Ratios:

The following section presents risk ratios for selected health indicators. These risk ratios represent the risk, or likelihood, of a particular health outcome or risk behavior for each major racial/ethnic minority group in Massachusetts (Black non-Hispanics, Hispanics, and Asian/Pacific Islanders) relative to the risk for White, non-Hispanics. The risk ratios are calculated by dividing the percentage or rate (see footnotes for information on which measure was used) of an outcome for one group over the percentage or rate of that outcome for another group (in this case, White, non-Hispanics). For example, the risk of infant mortality among Black non-Hispanics is 2.62 times greater than the risk among White non-Hispanics (risk ratio=2.62). In contrast, the risk of infant mortality among Asian/Pacific Islanders is 0.40 times the risk for White non-Hispanics. In other words, Black non-Hispanics had over twice the risk of infant mortality that White non-Hispanics did in 1999, while Asian/Pacific Islanders had less than half the risk (0.4, or 40%) that White non-Hispanics did in 1999.

MINORITY HEALTH STATUS INDICATOR RISK RATIOS:
Ratios of Racial/Ethnic Minority Rates to White, non-Hispanic Rates

	Black, non- Hispanic	Hispanic	Asian/ Pacific Islander
<u>Population, 1998¹</u>	280,199	352,664	176,844
<u>Risk Factors: Adults (1995-1999) (except where indicated)²</u>			
Received regular checkup in past 2 years	1.06	1.03	0.94
Reporting fair/poor health	1.25	1.65	0.80
No health insurance	1.97	2.40	1.48
Current smoking	1.01	1.01	0.70
Current binge drinking (1995, 1997, 1999)	0.74	0.84	0.63
Current chronic drinking (1995, 1997, 1999)	0.95	0.51	0.36
Overweight	1.55	1.22	0.41
Consuming 5 or more fruits and vegetables daily (1994, 1996, 1998)	0.97	0.82	1.14
Regular physical activity (1994, 1996, 1998)	0.93	0.68	0.68
No physical activity in past month (1994, 1996, 1998)	1.35	1.62	1.33
Diabetes (self-report)	1.35	1.04	0.31
High cholesterol (1995, 1997, 1999)	0.81	0.81	0.67
High blood pressure (1995, 1997, 1999)	1.14	0.99	0.34
Had last Mammogram over 2 years ago, (Women 40 and older)	0.78	0.92	0.91
Unchecked blood pressure (1995, 1997, 1999)	1.02	1.54	2.67
Unchecked cholesterol (1995, 1997, 1999)	1.28	1.35	1.59
Had last Pap Smear over 3 years ago, (Women 18+)	0.92	0.84	3.10
Ever had Digital Proctoscopic Exam, (Persons 40+) (1995, 1997, 1999)	0.71	1.14	0.43
<u>Smoking, Alcohol and Drug Use: Grades 7-8 (1999)³</u>			
Current smoking	0.78	1.08	0.63
Current alcohol use	1.00	1.29	0.47
Current use of marijuana	1.61	1.40	0.56
Current use of inhalants	1.15	1.57	0.76
Current use of cocaine	1.73	2.87	--
Current use of tranquilizers	1.70	1.74	--
Current use of narcotics	--	1.60	--
<u>Smoking, Alcohol and Drug Use: Grades 9-12 (1999)⁴</u>			
Current smoking	0.46	0.68	0.65
Current alcohol use	0.76	0.80	0.73
Current use of marijuana	0.90	0.70	0.51
Current use of inhalants	0.30	0.77	0.89
Current use of cocaine	0.47	0.32	--
Current use of tranquilizers	0.41	0.51	0.35
Current use of narcotics	0.49	0.49	0.89

**MINORITY HEALTH STATUS INDICATOR RISK RATIOS:
Ratios of Racial/Ethnic Minority Rates to White, non-Hispanic Rates
(cont.)**

	Black, non- Hispanic	Hispanic	Asian/ Pacific Islander
<u>Risk Behaviors: High School Students (1999)⁵</u>			
<i>Tobacco Use</i>			
Ever smoked	0.92	0.99	0.90
Current daily smoking	0.53	0.54	0.74
Smoking before age 13	0.79	0.92	0.75
Current use of smokeless tobacco	0.50	0.65	1.25
Current smoking cigars	0.92	0.63	0.65
<i>Drugs and Alcohol Use</i>			
Being sold, offered or given illegal drugs while at school	1.11	0.83	0.89
Current binge drinking	0.57	0.66	0.49
<i>Violence-Related Behavior and Experiences</i>			
Carried a weapon to school in past month	1.19	1.49	1.19
Involved in physical fight in past year	1.18	1.19	0.96
Threatened/injured with weapon at school in past year	1.42	1.42	1.80
Involved in gangs	1.72	1.99	2.22
Skipped school because felt unsafe in past month	1.80	2.60	1.80
<i>Sexual Behavior</i>			
Ever had sexual intercourse	1.48	1.29	0.80
Sexual intercourse in past 3 months	1.42	1.13	0.81
Sexual intercourse before age 13	3.50	2.75	1.75
Four or more sexual partners in lifetime	2.73	2.10	1.34
Current condom use in prior 3 months	1.20	0.99	0.85
Ever had unwanted sexual contact against will	1.30	1.20	1.50
Ever been pregnant or ever getting anyone pregnant	2.63	2.03	2.00
Alcohol/drug use before sexual intercourse in past 3 months	0.81	0.77	1.10
<i>AIDS/HIV Prevention Education</i>			
Receiving AIDS prevention education at school	0.97	0.94	0.86
Taught at school on how to use condoms	1.46	1.21	1.00
Had at least one conversation about sexual issues with family adults in past year	1.12	1.14	0.59
<i>Suicidal Behavior</i>			
Depressed in past year	0.93	1.17	1.21
Seriously considered suicide in past year	0.83	0.92	1.26
Suicide attempt in past year	0.80	1.28	2.00
Needed medical treatment for suicide attempt in past year	1.00	1.52	2.88
<i>Behaviors Related to Unintentional Injuries</i>			
Never or rarely wearing a seat belt	1.69	1.53	1.38
Ridden with driver who had been drinking alcohol in past month	0.86	0.97	0.82
Drinking and driving in past month	0.69	0.75	0.71
<i>Dietary Behavior</i>			
Risk of becoming overweight	1.36	1.31	0.73

**MINORITY HEALTH STATUS INDICATOR RISK RATIOS:
Ratios of Racial/Ethnic Minority Rates to White, non-Hispanic Rates
(cont.)**

	Black, non- Hispanic	Hispanic	Asian/ Pacific Islander
<u>Risk Behaviors: High School Students (1999)⁵ (cont.)</u>			
<i>Dietary Behavior (cont.)</i>			
Currently trying to lose weight	0.83	0.92	0.75
Drinking 3 or more glasses of milk daily	0.67	0.79	0.54
<i>Physical Activity</i>			
Engaging in recommended levels of aerobic exercise each week	0.86	0.85	0.75
Participation in sports teams	0.88	0.76	0.81
<u>Births (1999)⁶</u>			
Infant mortality	2.62	1.17	0.40
Teen births	4.21	7.60	1.87
Premature births	1.66	1.23	1.04
Low birth weight	1.91	1.28	1.14
Publicly-financed prenatal care	3.43	4.22	1.60
Adequate prenatal care	0.83	0.80	0.88
Smoking during pregnancy	0.82	0.70	0.14
Breastfeeding	0.99	1.04	1.06
Cesarean section rate	1.06	0.89	0.82
<u>Deaths (1999)⁷</u>			
All Causes	1.35	0.62	0.63
Heart disease	1.21	0.46	0.50
Cancer	1.33	0.54	0.80
Lung cancer	1.33	0.31	0.69
Breast cancer, female	0.83	0.62	0.58
Prostate cancer	1.67	0.62	0.71
Colon cancer	1.55	0.61	0.66
Stroke	1.25	0.63	0.90
Diabetes	2.52	1.86	0.74
Pneumonia and Influenza	0.80	0.28	0.70
Chronic Lower Respiratory Disease	0.67	0.40	0.17
AIDS/HIV	8.43	9.78	--
Motor vehicle related	1.42	1.28	0.83
Suicide	0.57	0.86	0.65
Homicide	12.60	7.40	--
<u>Hospital Discharges (1999)⁸</u>			
Hypertension	6.33	2.32	2.26
Cerebrovascular Disease (Stroke)	1.49	0.80	0.84
Major Cardiovascular Disease	1.34	0.85	0.57
Asthma	4.16	3.48	0.81
<u>Admissions to publicly-funded substance abuse treatment programs (1999)⁹</u>			
Total admissions	3.58	2.93	0.25

MINORITY HEALTH STATUS INDICATOR RISK RATIOS:
Ratios of Racial/Ethnic Minority Rates to White, non-Hispanic Rates
(cont.)

	Black, non-Hispanic	Hispanic	Asian/Pacific Islander
<u>AIDS Incidence (2000)</u>¹⁰			
AIDS incidence, 1995	8.07	7.38	0.23
AIDS incidence, 1996	10.18	7.92	0.40
AIDS incidence, 1997	13.47	8.32	0.88
AIDS incidence, 1998	14.67	8.61	0.96
AIDS incidence, 1999	11.50	9.66	0.88
AIDS incidence, 2000	16.08	11.11	2.12
(Males)			
AIDS incidence, males, 1995	6.42	6.30	--
AIDS incidence, males, 1996	7.83	6.49	0.48
AIDS incidence, males, 1997	9.83	6.71	1.01
AIDS incidence, males, 1998	10.40	7.75	0.76
AIDS incidence, males, 1999	8.96	8.29	0.88
AIDS incidence, males, 2000	11.59	9.72	2.37
(Females)			
AIDS incidence, females, 1995	15.86	7.90	--
AIDS incidence, females, 1996	19.98	13.51	--
AIDS incidence, females, 1997	33.15	16.55	--
AIDS incidence, females, 1998	33.29	11.74	--
AIDS incidence, females, 1999	21.12	14.35	--
AIDS incidence, females, 2000	35.27	16.30	--
<u>Sexually transmitted diseases (1999)</u>¹¹			
(Total)			
Syphilis, total	63.72	38.61	20.19
Gonorrhea, total	36.68	12.77	1.41
Chlamydia, total	20.56	15.04	3.70
(Males)			
Syphilis, male	68.90	45.19	22.12
Gonorrhea, male	31.99	11.06	1.07
Chlamydia, male	35.54	19.92	0.70
(Females)			
Syphilis, female	57.15	29.71	17.44
Gonorrhea, female	41.86	14.69	1.82
Chlamydia, female	17.82	14.41	3.84

Note: Race/Hispanic ethnicity categories are mutually exclusive. White non-Hispanic, Black, non-Hispanic, and Asian/Pacific Islander categories do not include persons of Hispanic ethnicity.

-- Numbers too small (cell size less than 5) to calculate risk ratio

1. Population data are from the Massachusetts Institute for Social and Economic Research (MISER). The data are 1998 estimates of the population (released Sept. 2000).
2. Data source: Behavioral Risk Factor Surveillance Survey for 1995-1999, unless otherwise indicated. The BRFSS is an annual, ongoing random-digit-dial survey of Massachusetts residents ages 18+. Risk ratios are calculated as ratios of percentages. **See Appendix for 95% confidence intervals for risk ratios based on BRFSS data.**
3. Data source: Massachusetts Department of Public Health, Bureau of Substance Abuse Services, 1999 Triennial School Survey. Data given here are for grades 7-8. (Sample size: Black=307; White=1,470; Hispanic=368; Asian=158). Risk ratios are calculated as ratios of percentages.
4. Data source: Massachusetts Department of Public Health, Bureau of Substance Abuse Services, 1999 Triennial School Survey. Data given here are for grades 9-12. (Sample size: Black=504; White=2,251; Hispanic=443; Asian=197). Risk ratios are calculated as ratios of percentages.
5. Data Source: Massachusetts Department of Education's Youth Risk Behavior Survey (YRBS). Risk ratios are calculated as ratios of percentages.
6. Data source: Massachusetts birth certificates, 1999. Data on subgroups are available. Risk ratios for infant mortality and teen births are calculated as ratios of rates; all others as ratios of percentages (infant mortality rate= infant deaths per 1,000 live births; teen birth rate= births to females ages 15-19 per 1,000 females ages 15-19).
7. Data source: Massachusetts death certificates, 1999. Data on subgroups are available but limited by small numbers. Risk ratios are calculated as ratios of age-adjusted rates (see Technical Notes for explanation of age-adjusted rates).
8. Data source: Massachusetts Division of Health Care Finance and Policy, Hospital Discharge Dataset, Fiscal Year 1999. Risk ratios are calculated as ratios of age-adjusted rates (see Technical Notes for explanation of age-adjusted rates).
9. Data source: Bureau of Substance Abuse Services, Massachusetts Department of Public Health, 1999. Risk ratios are calculated as ratios of admission rates (number of admissions per 1,000 persons).
10. Data source: HIV/AIDS Surveillance Program, Massachusetts Department of Public Health. Risk ratios are calculated as ratios of AIDS incidence rates (number of new AIDS cases diagnosed in a given year per 100,000 persons (using population estimates for the same year, except for 1999, where 1998 population estimates are used)).
11. Data source: Division of Sexually Transmitted Disease Prevention Program, annual case reports. Risk ratios are calculated as ratios of STD incidence rates (number of cases diagnosed in 1999 per 100,000 persons).

APPENDIX

**Population by Race and Hispanic or Latino Origin,
for All Ages and for 18 Years and Over,
Massachusetts: 2000¹**

Subject	All ages		18 years and over	
	Number	Percent of total population	Number	Percent of population 18 years and over
RACE				
Total population	6 349 097	100.0	4 849 033	100.0
One race	6 203 092	97.7	4 758 677	98.1
White	5 367 286	84.5	4 180 644	86.2
Black or African American	343 454	5.4	236 027	4.9
American Indian and Alaska Native	15 015	0.2	10 415	0.2
Asian	238 124	3.8	178 698	3.7
Native Hawaiian and Other Pacific Islander	2 489	-	1 799	-
Some other race	236 724	3.7	151 094	3.1
Two or more races	146 005	2.3	90 356	1.9
HISPANIC OR LATINO AND RACE				
Total population	6 349 097	100.0	4 849 033	100.0
Hispanic or Latino (of any race)	428 729	6.8	271 003	5.6
Not Hispanic or Latino	5 920 368	93.2	4 578 030	94.4
One race	5 810 030	91.5	4 508 514	93.0
White	5 198 359	81.9	4 069 567	83.9
Black or African American	318 329	5.0	220 658	4.6
American Indian and Alaska Native	11 264	0.2	8 150	0.2
Asian	236 786	3.7	177 829	3.7
Native Hawaiian and Other Pacific Islander	1 706	-	1 317	-
Some other race	43 586	0.7	30 993	0.6
Two or more races	110 338	1.7	69 516	1.4

- Represents zero or rounds to 0.0.

1. Data Source: U.S. Census Bureau, Census 2000 Redistricting Data (P.L. 94-171) Summary File.

NOTE: Data not adjusted based on the Accuracy and Coverage Evaluation. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expplu.html>.

Difference in Population by Race and Hispanic or Latino Origin, Massachusetts: 1990 to 2000¹

Subject	1990 Census		Census 2000		Difference between 1990 and 2000			
	Number	Percent of total population	Race alone ²	Race alone or in combination ³	Using race alone for Census 2000		Using race alone or in combination for Census 2000	
					Numerical difference (2000 minus 1990)	Percent difference (based on 1990)	Numerical difference (2000 minus 1990)	Percent difference (based on 1990)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
RACE								
Total population⁴	6 016 425	100.0	6 349 097	6 349 097	332 672	5.5	332 672	5.5
White	5 405 374	89.8	5 367 286	5 472 809	- 38 088	-0.7	67 435	1.2
Black or African American	300 130	5.0	343 454	398 479	43 324	14.4	98 349	32.8
American Indian and Alaska Native	12 241	0.2	15 015	38 050	2 774	22.7	25 809	210.8
Asian	142 137	2.4	238 124	264 814	95 987	67.5	122 677	86.3
Native Hawaiian and Other Pacific Islander	1 255	-	2 489	8 704	1 234	98.3	7 449	593.5
Some other race	155 288	2.6	236 724	320 907	81 436	52.4	165 619	106.7
HISPANIC OR LATINO AND RACE								
Total population⁴	6 016 425	100.0	6 349 097	6 349 097	332 672	5.5	332 672	5.5
Hispanic or Latino (of any race) ⁴	287 549	4.8	428 729	428 729	141 180	49.1	141 180	49.1
Not Hispanic or Latino ⁴	5 728 876	95.2	5 920 368	5 920 368	191 492	3.3	191 492	3.3
White	5 280 292	87.8	5 198 359	5 277 078	- 81 933	-1.6	- 3 214	-0.1
Black or African American	274 464	4.6	318 329	362 428	43 865	16.0	87 964	32.0
American Indian and Alaska Native	10 545	0.2	11 264	31 103	719	6.8	20 558	195.0
Asian	139 268	2.3	236 786	261 722	97 518	70.0	122 454	87.9
Native Hawaiian and Other Pacific Islander	1 070	-	1 706	6 305	636	59.4	5 235	489.3
Some other race	23 237	0.4	43 586	98 673	20 349	87.6	75 436	324.6

- Represents zero or rounds to 0.0.

1. Data source: U.S. Census Bureau, Census 2000 Redistricting Data (P.L. 94-171) Summary File. 2. Reporting only one of the following six races: (1) White, (2) Black or African American, (3) American Indian and Alaska Native, (4) Asian, (5) Native Hawaiian and Other Pacific Islander, (6) Some other race. 3. Alone or in combination with one or more of the other 5 races listed. Numbers for the six race groups may add to more than the total population and the six percentages may add to more than 100 percent because individuals may indicate more than one race. 4. The differences between 1990 and 2000 for the total population, the Hispanic or Latino Population, and the Not Hispanic or Latino population are not affected by whether data on race are for race alone or for race alone or in combination. The Hispanic or Latino population may be of any race.

Note: Data not adjusted based on the Accuracy and Coverage Evaluation. For information on confidentiality protection, sampling error, nonsampling error, and definitions, see <http://factfinder.census.gov/home/en/datanotes/expplu.html>

**1998 Massachusetts Population Estimates¹
By Age Group, Gender, Race² and Hispanic Ethnicity³**

Age	Gender	Total	White Non- Hispanic	Black Non- Hispanic	Asian/ Pacific Islander Non-Hispanic	Hispanic
UNDER 1	MALE	40,953	32,011	2,778	1,691	4,383
	FEMALE	38,907	30,390	2,660	1,603	4,178
	TOTAL	79,860	62,401	5,438	3,294	8,561
1 TO 4	MALE	164,030	128,035	11,178	6,793	17,620
	FEMALE	155,970	121,581	10,707	6,465	16,854
	TOTAL	320,000	249,616	21,885	13,258	34,474
5 TO 14	MALE	413,424	339,322	23,934	13,601	35,561
	FEMALE	393,246	321,580	23,504	13,044	34,165
	TOTAL	806,670	660,902	47,438	26,645	69,726
15 TO 24	MALE	441,912	372,149	22,843	14,945	30,984
	FEMALE	441,918	371,677	23,494	15,501	30,251
	TOTAL	883,830	743,826	46,337	30,446	61,235
25 TO 34	MALE	502,456	425,696	24,964	17,147	33,686
	FEMALE	502,881	426,432	25,245	16,888	33,303
	TOTAL	1,005,337	852,128	50,209	34,035	66,989
35 TO 44	MALE	503,355	439,816	21,417	15,708	25,224
	FEMALE	516,010	451,726	21,769	15,520	25,790
	TOTAL	1,019,365	891,542	43,186	31,228	51,014
45 TO 54	MALE	398,558	360,980	13,616	9,392	13,682
	FEMALE	420,102	379,782	15,010	9,477	14,908
	TOTAL	818,660	740,762	28,626	18,869	28,590
55 TO 64	MALE	236,809	217,327	7,286	4,785	6,920
	FEMALE	258,746	236,335	9,102	4,657	8,194
	TOTAL	495,555	453,662	16,388	9,442	15,114
65 TO 74	MALE	195,369	183,546	4,889	2,611	4,016
	FEMALE	246,634	230,661	6,968	3,362	5,210
	TOTAL	442,003	414,207	11,857	5,973	9,226
75 TO 84	MALE	111,651	106,011	2,366	1,200	1,946
	FEMALE	187,831	178,642	4,159	1,536	3,261
	TOTAL	299,482	284,653	6,525	2,736	5,207
85 +	MALE	31,447	29,493	674	343	884
	FEMALE	89,054	85,108	1,636	575	1,644
	TOTAL	120,501	114,601	2,310	918	2,528
ALL AGES	MALE	3,039,964	2,634,386	135,945	88,216	174,906
	FEMALE	3,251,299	2,833,914	144,254	88,628	177,758
	TOTAL	6,291,263	5,468,300	280,199	176,844	352,664

1. 1998 Population estimates from MISER (September 2000), modified by MDPH-BHSR&E. 2. The age-gender-race distributions from the 1990 US Census (MARS) file were applied to the 1998 population estimates to separate Asian/Pacific Islanders from the combined category of Asian/Pacific Islanders and American Indian. 3. Persons of Hispanic ethnicity are NOT included in the race categories.

95% Confidence Intervals¹ for Risk Ratios² based on BRFSS³ Data

	Black, non- Hispanic	Hispanic	Asian/ Pacific Islander
<u>Risk Factors: Adults, 1995-1999 (except where indicated)</u>			
Received regular checkup in past 2 years	1.04 – 1.08	1.00 – 1.05	0.88 – 1.00
Reporting fair/poor health	1.05 – 1.49	1.44 – 1.88	0.57 – 1.13
No health insurance	1.60 – 2.43	2.08 – 2.77	1.07 – 2.05
Current smoking	0.88 – 1.17	0.88 – 1.15	0.53 – 0.92
Current binge drinking (1995, 1997, 1999)	0.58 – 0.93	0.69 – 1.02	0.41 – 0.99
Current chronic drinking (1995, 1997, 1999)	0.62 – 1.46	0.29 – 0.88	0.13 – 0.98
Overweight	1.40 – 1.71	1.10 – 1.35	0.30 – 0.56
Consuming 5 or more fruits and vegetables daily (1994, 1996, 1998)	0.81 – 1.16	0.68 – 0.98	0.83 – 1.56
Regular physical activity (1994, 1996, 1998)	0.77 – 1.12	0.56 – 0.82	0.48 – 0.97
No physical activity in past month (1994, 1996, 1998)	1.15 – 1.58	1.42 – 1.85	0.95 – 1.87
Diabetes (self-report)	1.06 – 1.73	0.80 – 1.36	0.15 – 0.67
High cholesterol (1995, 1997, 1999)	0.67 – 0.98	0.66 – 1.01	0.47 – 0.93
High blood pressure (1995, 1997, 1999)	0.98 – 1.33	0.82 – 1.19	0.22 – 0.52
Had last Mammogram over 2 years ago, (Women 40 and older)	0.58 – 1.05	0.70 – 1.22	0.54 – 1.55
Unchecked blood pressure (1995, 1997, 1999)	0.62 – 1.67	1.13 – 2.09	1.78 – 3.79
Unchecked cholesterol (1995, 1997, 1999)	1.10 – 1.48	1.19 – 1.53	1.31 – 1.94
Had last Pap Smear over 3 years ago, (Women 18+)	0.65 – 1.31	0.68 – 1.04	2.37 – 4.06
Ever had Digital Proctoscopic Exam, (Persons 40+) (1995, 1997, 1999)	0.58 – 0.87	0.89 – 1.45	0.22 – 0.84

1. See Technical Notes for definition of confidence interval. 2. See page 71 for definition of risk ratios. 3. Data source: Behavioral Risk Factor Surveillance Survey for 1995-1999, unless otherwise indicated. The BRFSS is an annual, ongoing random-digit-dial survey of Massachusetts residents ages 18+. Risk ratios are calculated as ratios of percentages.

Technical Notes

Age-Adjusted Rate

A procedure for adjusting rates, designed to minimize the distortions created by differences in age distribution when comparing rates for populations with different age compositions. This calculation is useful when comparing death rates from different populations or in the same population over time. For example, if one wished to compare the 1999 death rates between Hispanics and Whites, the age-adjusted formula would account for the fact that only 4.8% of Hispanic residents in Massachusetts were 65 years of age or older, whereas 14.9% of White Massachusetts residents were in this age group.

Age-adjusted rates are calculated by weighting the age-specific rates for a given year by the age distribution of a standard population. The weighted age-specific rates are then added to produce the adjusted rate for all ages combined. The 2000 U.S. population is used as the standard in this document for consistency with data published by NCHS.

[Important Note: Beginning with 1999 data, the 2000 U.S. projected population is the new standard population for age-adjustment of mortality rates. Since age-adjusted rates can only be compared with other age-adjusted rates that use the same standard population, the age-adjusted mortality rates published in this document should not be compared with age-adjusted mortality rates published in earlier versions of this document or other previous publications.]

Age-Specific Rate

Rates are for a specified age group (such as “death rates for residents ages 65 and over”). Age-specific rates are calculated by dividing the actual number of deaths in a given year by the estimated population in that age group for that year. The numerator and denominator refer to the same age group.

$$\begin{array}{l} \text{Age-specific} \\ \text{death rate} \\ \text{(ages 65 and over)} \end{array} = \frac{\text{Number of deaths among residents} \\ \text{ages 65 and over in a given year}}{\text{Population ages 65 and over} \\ \text{in that year}} \times 100,000$$

Comparability Modified Rate

A rate designed to assist in the analysis of mortality trends between revisions of the International Classification of Diseases (ICD). A comparability modified rate is calculated by multiplying the cause-specific comparability ratio by the cause-specific rate for years 1994-1998. Comparability modified rates should be used to compare trends between causes of death in 1994-1998 with causes of death in 1999.

Confidence Interval

The confidence interval (CI) for risk ratios calculated based on BRFSS data is a range of values that has a 95% chance of including the true risk ratio. The confidence interval describes the precision of the risk ratio, with a wider interval indicating less certainty about the estimate. The width of the interval reflects the size of the sample upon which the data is based.

ICD-10 Codes for Selected Causes of Death Presented in this Document (with corresponding ICD-9 Codes)

[Important Note: Beginning with data year 1999, a new revision of classifying causes of death has been implemented – International Classification of Diseases, Tenth Revision (ICD-10), has replaced the International Classification of Diseases, Ninth Revision (ICD-9) for coding all mortality data. To adjust for the effect of the new coding system, comparability ratios developed by NCHS have been used to compare deaths classified using ICD-9 with deaths classified using ICD-10.]

(Sorted by Cause of Death)

<u>Cause of Death</u>	<u>ICD-10 Code</u>	<u>ICD-9 Code</u>
Alzheimer's Disease	G30	331.0
Cancer (Malignant Neoplasms)	C00-C97	140-208
of colon, rectum, rectum and anus	C18-C21	153-154, 159.9
of female breast	C50	174
of prostate	C61	185
of trachea, bronchus and lung	C33-C34	162
Certain conditions originating in the perinatal period (Perinatal Conditions)	P00-P96	760-779
Chronic lower respiratory diseases¹	J40-J47	490-496
Diabetes Mellitus	E10-E14	250
External causes of injuries and poisonings (intentional, unintentional and of undetermined intent)	V01-Y98	E800-E999
Homicide	X85-Y09, Y87.1	E960-E969
Injuries of undetermined intent	Y10-Y34, Y87.2, Y89.9	E980-E989
Suicide	X60-X84, Y87.0	E950-E959
Unintentional Injuries	V01-X59	E800-E949
Motor Vehicle-related injuries	V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2	E810-E825 E850-E869, E880-E928, E929.2-E929.9
Unintentional non-transport injuries	W00-X59, Y86	
Heart Disease	I00-I09, I11, I13, I20-I51	390-398, 402, 404-429
Infectious and parasitic diseases	A00-B99	001-139
Human Immunodeficiency Virus (HIV) disease (AIDS) ²	B20-B24	042-044
Septicemia	A40-A41	038
Influenza and pneumonia	J10-J18	480-487
Nephritis	N00-N07, N17-N19, N25-N27	580-589
Stroke (Cerebrovascular disease)	I60-I69	430-438

1. The title of this cause of death has changed between ICD-10 and ICD-9. Chronic Lower Respiratory Disease (ICD-10 title) corresponds to Chronic Obstructive Pulmonary Disease (COPD) (ICD-9 title). 2. Comparability ratio (used to calculate comparability modified rates for 1994-1998 that appear on page 55) = 1.0637 for 1994-1996 and 1.1448 for 1997-1998. Source for comparability ratio: National Center for Health Statistics, June 2001.

